

DEPARTMENT OF THE NAVY
FY 1997 BUDGET ESTIMATES



JUSTIFICATION OF ESTIMATES
MARCH 1996

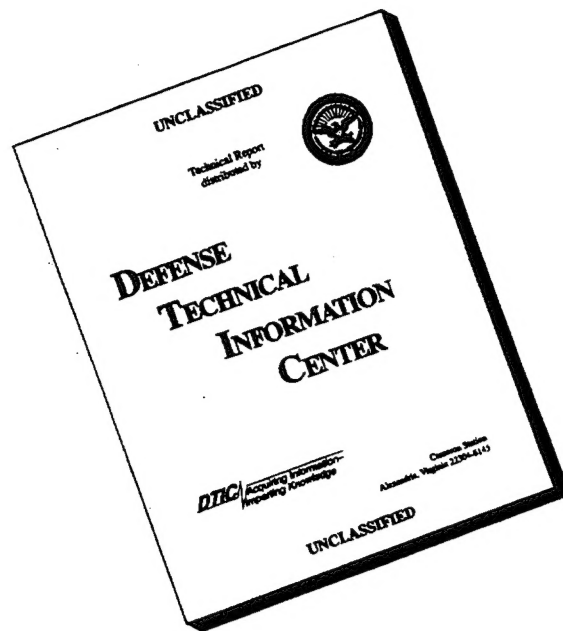
OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY 3

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DEPARTMENT OF THE NAVY
NAVAL AIR SYSTEMS COMMAND
FY 1997 PROCUREMENT PROGRAM

APPROPRIATION: OTHER PROCUREMENT, NAVY
BUDGET ACTIVITY: AVIATION SUPPORT EQUIPMENT

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Department of the Navy

FY 1997 Procurement Program

Exhibit P-1

APPROPRIATION: 1810N Other Procurement, Navy

DATE: 03/06/96

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1997 UNIT COST	MILLIONS OF DOLLARS				FY 1997 QUANTITY	FY 1997 COST C
				FY 1995 QUANTITY	FY 1995 COST	FY 1996 QUANTITY	FY 1996 COST		
BUDGET ACTIVITY 03: Aviation Support Equipment									
Sonobuoys									
125	4005 AN/SSQ-36 (BT)	A		2.3		.2			.9 U
126	4032 AN/SSQ-62 (DICASS)	A		23.8		4.0			22.7 U
127	4038 AN/SSQ-110			37.0		21.4			36.0 U
128	4042 AN/SSQ-86 (DLC)	A		.9					U
129	4045 Signal, Underwater Sound (SUS)	A							1.1 U
Aircraft Support Equipment									
130	4204 Weapons Range Support Equipment	A		62.1		47.2			27.8 U
131	4208 Expeditionary Airfields	A		2.5		4.8			1.6 U
132	4214 Aircraft Rearming Equipment	A		8.7		7.3			9.3 U
133	4216 Aircraft Launch & Recovery Equipment	A		35.0		15.4			29.0 U
134	4226 Meteorological Equipment	A		20.9		19.6			17.0 U
135	4242 Other Photographic Equipment	A		.8		.7			.7 U
136	4244 Aviation Life Support	A		12.1		17.2			13.8 U
137	4248 Airborne Mine Countermeasures	A		.3		18.9			13.5 U
138	4255 LAMPS MK III Shipboard Equipment	A		6.1		16.2			15.3 U
139	4256 REWSON Photographic Equipment	A		.6		.6			.9 U
140	4259 Stock Surveillance Equipment	A		1.4		1.5			1.6 U
141	4265 Other Aviation Support Equipment	A		15.0		12.2			7.9 U
142	4271 Safety & Survivability Items					9.8			U
TOTAL Aviation Support Equipment				229.3		197.0			199.1

* ITEMS UNDER \$50,000

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00 MAR 96

Other Procurement, Navy
Program and Financing (in Thousands of dollars)

Identification code	17-1810-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1995 actual	1996 est.	1997 est.	1995 actual	1996 est.	1997 est.
Program by activities:							
Direct program:							
00.0101	Ships support equipment	774,051	610,985	868,175	812,422	464,491	735,237
00.0201	Communications and electronics equipment	1,171,866	783,792	865,974	1,238,164	978,180	800,676
00.0301	Aviation support equipment	229,324	197,039	199,105	274,061	165,109	199,985
00.0401	Ordnance support equipment	415,903	399,451	464,903	451,365	300,618	425,999
00.0501	Civil engineering support equipment	83,559	46,442	38,057	121,814	47,493	44,084
00.0601	Supply support equipment	102,286	96,277	69,153	90,729	91,648	77,428
00.0701	Personnel and command support equipment	229,676	96,196		205,532	136,699	59,884
00.0801	Spares and repair parts	261,529	191,249	208,828	311,155	144,229	192,190
00.9101	Total direct program	3,268,194	2,421,431	2,714,195	3,505,242	2,328,467	2,535,483
01.0101	Reimbursable program	18,948	36,000	36,000	18,820	53,152	36,000
10.0001	Total	3,287,142	2,457,431	2,750,195	3,524,062	2,381,619	2,571,483
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-1,150	-36,000	-36,000	-1,128	-36,000	-36,000
13.0001	Trust funds(-)	-10			14,664		
14.0001	Non-Federal sources(-)	-17,788			-17,622		
17.0001	Recovery of prior year obligations				-23,412		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans				-916,602	-678,768	-754,580
21.4009	Available to finance new budget plans	-92,825	-22,300		-92,825	-22,300	
21.4009	Reprogramming from/to prior year budget plan	-9,465					
24.4002	Unobligated balance available, end of year:						
24.4003	For completion of prior year budget plans	22,300			678,768	754,580	933,292
24.4003	Available to finance subsequent year budget	5,265			22,300		
25.0001	Unobligated balance expiring				5,265		
39.0001	Budget authority	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195
Budget authority:							
40.0001	Appropriation	3,290,499	2,464,637	2,714,195	3,290,499	2,464,637	2,714,195
40.3601	Appropriation rescinded (unob bal)		-8,600			-8,600	
41.0001	Transferred to other accounts (-)	-103,438	-75,269		-103,438	-75,269	
42.0001	Transferred from other accounts	6,408	18,363		6,408	18,363	
43.0001	Appropriation (adjusted)	3,193,469	2,399,131	2,714,195	3,193,469	2,399,131	2,714,195

Other Procurement, Navy
Object Classification (in Thousands of dollars)

00 MAR 96

Identification code	17-1810-0-1-051	1995 actual	1996 est.	1997 est.
Direct obligations:				
125.101	Advisory and assistance services	51,382	39,242	45,252
125.303	Purchases goods/services (inter/intra) Fed accounts	1,158,456	989,796	913,506
126.001	Purchases from revolving funds	904,352	445,181	657,962
131.001	Supplies and materials	1,391,052	854,248	918,763
	Equipment			
199.001	Total Direct obligations	3,505,242	2,328,467	2,535,483
Reimbursable obligations:				
231.001	Equipment	18,820	53,152	36,000
299.001	Total Reimbursable obligations	18,820	53,152	36,000
999.901	Total obligations	3,524,062	2,381,619	2,571,483

00 MAR 96

Other Procurement, Navy
 Program and Financing (in Thousands of dollars)

Identification code	Budget Plan (amounts for PROCUREMENT actions programed)		Obligations	
	1995 actual	1996 est.	1995 actual	1996 est.
17-1810-0-1-051				
Relation of obligations to outlays:				
71.0001 Obligations incurred	3,519,976	2,345,619	2,345,619	2,535,483
72.1001 Orders on hand, SOY	-14,127	-30,569	-30,569	
72.4001 Obligated balance, start of year	5,620,661	4,671,807	4,671,807	3,655,739
74.1001 Orders on hand, EOY	30,569		30,569	
74.4001 Obligated balance, end of year	-4,671,807	-3,655,739	-3,655,739	-3,189,476
77.0001 Adjustments in expired accounts (net)	-12,067		-12,067	
78.0001 Adjustments in unexpired accounts	-23,412		-23,412	
90.0001 Outlays (net)	4,449,793	3,331,118	3,331,118	3,001,746

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Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		(DOD Exhibit P5)		Date:		
Other Procurement, Navy		PROGRAM COST BREAKDOWN		P-1 Item Nomenclature		Subhead No.:		
3 - Aviation Support Equipment -		P-1 # 125		NARM #400500				
Sonobuoys		AN/SSQ-36(BT) Sonobuoy		PEO(A) PROGRAM		U3QG		
		(Total Cost in Thousands, Quantity each)						
COST CODE	ELEMENT OF COST	ID CODE	FY-95		FY-96		FY-97	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QG001	AN/SSQ-36 w/SLC*	A		2,129		174		820
	Delivered to Fleet		11,630		473		3,977	
	Lot Acceptance Buoys		352		15		123	
QG830	PRODUCTION ENGINEERING			64		12		50
QG860	ACCEPTANCE TESTING			91		11		53
T O T A L			11,982	2,284	488	197	4,100	923
* SONOBUOY LAUNCH CONTAINER			P-1 Shopping List Item No.		Page No			
			125		2			

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OTHER PROCUREMENT, NAVY										(DOD Exhibit P5A) Date:	
PROCUREMENT HISTORY & PLANNING										Subhead No.:	
P-1 Item Nomenclature										U3QG	
P-1 # 125											
PEO(A) PROGRAM											
Sonobuoys											
AN/SSQ-36 (BT) Sonobuoy											
CONTRACTOR & LOCATION										DATE OF FIRST DELIVERY	
CONTRACT METHOD AND TYPE										CONTRACTED BY	
ELEMENT OF COST FISCAL YEAR										UNIT COST	
FY 95										QTY	
FY 96										DATE	
FY 97										IF YES, WHEN AVAILABLE	
U3QG/001	AN/SSQ-36 w/SLC	HERMES CANADA	C/FFP	NAWC IN	12/94	1/96	11,982	157.99	YES	NO	
U3QG/001	AN/SSQ-36 w/SLC	NOT SELECTED	C/FFP	NAWC IN	3/96	3/97	488	356.74	YES	NO	
U3QG/001	AN/SSQ-36 w/SLC	NOT SELECTED	C/FFP	NAWC IN	12/96	10/97	4,100	200.00	YES	NO	

REMARKS:

P-1 Shopping List Item No.

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UNCLASSIFIED CLASSIFICATION		(DOD Exhibit P5)		Date:						
OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		P-1 Item Nomenclature		Subhead No.:						
Appropriation/Budget Activity		P-1 # 125								
Other Procurement, Navy		NARM #400500								
3 - Aviation Support Equipment -		AN/SSQ-36(BF) Sonobuoy PEO(A) PROGRAM		U3QG						
Sonobuoys		(Total Cost in Thousands, Quantity each)								
COST CODE	ELEMENT OF COST	ID CODE	FY-98		FY-99		FY-00		FY-01	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QG001	AN/SSQ-36 w/SLC*	A	3,907	850	3,766	842	3,649	836	3,661	860
	Delivered to Fleet									
	Lot Acceptance Buoys		121		116		113		113	
QG830	PRODUCTION ENGINEERING			51		51		51		31
QG860	ACCEPTANCE TESTING			55		55		54		43
T O T A L			4,028	956	3,882	948	3,762	941	3,774	934
* SONOBUOY LAUNCH CONTAINER			P-1 Shopping List Item No.		Page No					
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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET										(DOD Exhibit F40)		Date:													
Appropriation/Budget Activity										P-1 Item Nomenclature		P-1 # 126													
Other Procurement, Navy										AN/SSQ-62 (DICASS) Sonobuoy		NARM #403200													
3 - Aviation Support Equip - Sonobuoys										FY95		FY96		FY97		FY98		FY99		FY00		FY01		PEO(A) PROGRAM	
QUANTITY (In Thous)																									
COST (In Millions)										23.8		4.0		22.7		22.9		32.2		31.9		26.7			
The AN/SSQ-62 (DICASS) sonobuoy is a directional active sonobuoy that provides target bearing and range information on the submarine with each echo.																									
The AN/SSQ-62D is an ECP to the AN/SSQ-62C incorporating the following changes:																									
(1) Add shallow and deep family of depths, selectable at Electronic Function Select, and																									
(2) remove grey overpack shipping/storage container.																									
The FY 95 contract has been awarded to Sparton for a quantity of 22,152 AN/SSQ-62C's.																									
The FY 96 program provides for 1,994 AN/SSQ-62D's to be competed among qualified manufacturers.																									
The FY 97 program provides for 22,267 AN/SSQ-62D's to be competed among qualified manufacturers.																									

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OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN (DOD Exhibit P5)										Date:			
P-1 Item Nomenclature										Subhead No.:			
P-1 # 126													
AN/SSQ-62 (DICASS)													
SONOBUOY													
PEO(A) PROGRAM													
U3QF													
(Total Cost in Thousands, Quantity each)													
FY-95										FY-96		FY-97	
TOTAL										TOTAL		TOTAL	
QTY										QTY		QTY	
COST										COST		COST	
ID													
CODE													
A													
ELEMENT OF COST													
AN/SSQ-62 w/SIC*													
Delivered to Fleet													
Lot Acceptance Buoys													
21,640										1,948		21,599	
512										46		668	
22,130										3,560		21,109	
**										**		**	
QF001													
QF830													
QF860													
T O T A L													
22,152										23,754		22,267	
23,754										4,005		22,704	
** INCLUDES FUNDING FOR SILVER													
* SONOBUOY LAUNCH CONTAINER													
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OTHER PROCUREMENT, NAVY PROCUREMENT HISTORY & PLANNING										(DOD Exhibit P5A) Date:											
Appropriation/Budget Activity				P-1 Item Nomenclature						Subhead No.:											
Other Procurement, Navy				P-1 # 126						U3QF											
3-Aviation Support Equipment-				PEO (A) PROGRAM																	
Sonobuoys				AN/SSQ-62 (DICASS) Sonobuoy																	
COST CODE		ELEMENT OF COST FISCAL YEAR		CON-TRACTOR & LOCATION		CON-TRACT METHOD AND TYPE		CON-TRACTED BY DATE		DATE OF FIRST DELIV- ERY		UNIT COST		QTY		SPECS AVAIL NOW? WHEN?		ARE SPEC REVI- SIONS REQ?		IF YES, WHEN AVAIL- ABLE	
U3QF/ 001		FY 95	AN/SSQ-62C w/SLC*	SPARTON FLORIDA		C/FFP		NAWC IN	2/95		2/96	22,152	973.57	YES	NO						
U3QF/ 001		FY 96	AN/SSQ-62D w/SLC*	NOT SELECTED		C/FFP		NAWC IN	3/96		3/97	1,994	1,785.51	YES	NO						
U3QF/ 001		FY 97	AN/SSQ-62D w/SLC*	NOT SELECTED		C/FFP		NAWC IN	12/96		10/97	22,267	948.00	YES	NO						
REMARKS:																					

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OTHER PROCUREMENT, NAVY										Date:	
PROGRAM COST BREAKDOWN											
P-1 Item Nomenclature										Subhead No.:	
P-1 # 126											
AN/SSQ-62 (DICASS)											
SONOBUOY											
PEO(A) PROGRAM										U3QF	
(Total Cost in Thousands, Quantity each)											
COST CODE	ELEMENT OF COST	ID CODE	FY-98		FY-99		FY-00		FY-01		
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
QF001	AN/SSQ-62 w/SLC*	A		**		**		**		**	
	Delivered to Fleet		19,583	20,381	31,054	28,643	30,521	28,344	23,818	23,726	
	Lot Acceptance Buoys		606		731		719		561		
QF830	PRODUCTION ENGINEERING			1224		1720		1702		1425	
QF860	ACCEPTANCE TESTING			1325		1862		1842		1542	
T O T A L			20,189	22,930	31,785	32,225	31,240	31,888	24,379	26,693	
** INCLUDES FUNDING FOR SILVER											
* SONOBUOY LAUNCH CONTAINER											
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FY 96/97 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE		SONOBUOYS (AN/SSQ-62) PEOT(A) PROGRAM		Date																										
ITEM / MANUFACTURER/ PROCUREMENT YEAR	S E R V	PROC. QTY	ACCEP. PRIOR TO 1 OCT	BAL. DUE AS OF 1 OCT	FISCAL YEAR 96												FISCAL YEAR 97												L A T E R			
					CALENDAR YEAR 96												CALENDAR YEAR 97															
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
FY 94																																
QF 001 AN/SSQ-62 - MAGNAVOX SPARTON		8.6 13.7	-- --	8.6 13.7										0.8	0.8	0.7	0.7				0.7	0.7	0.7	0.7	0.7	1.2	1.2	1.2	1.1	1.1	5.5	
FY 95																																
QF 001 AN/SSQ-62 - SPARTON		22.2	--	22.2					0.8	0.8	1.7	1.6	1.6	3.3	1.6	1.6	1.6				2.6	1.8										
FY 96																																
QF 001 AN/SSQ-62 - NOT SELECTED		2.0	--	2.0																			0.2	0.3	0.3	0.3	0.3	0.3	0.3			
FY 97																																
QF 001 AN/SSQ-62 - NOT SELECTED		22.3	--	22.3																												22.3
TOTAL																																
MANUFACTURER'S NAME AND LOCATION				MAGNAVOX, FT. WAYNE, IN SPARTON, JACKSON, MI.		PRODUCTION RATES		1-8-5 MINIMUM SUST		6.0 4.0 6.4		8.0 8.0 8.0		M+4 M+4 M+4		RCHD D +		TOTAL AFTER 1 OCT		12		REMARKS		FY 95 PROC LAT (512) FY 96 PROC LAT (46) FY 97 PROC LAT (668) LAT DONE MONTHLY								

OTHER PROCUREMENT, NAVY		(DOD Exhibit P40)		Date:			
BUDGET ITEM JUSTIFICATION SHEET							
P-1 Item Nomenclature							
Appropriation/Budget Activity		P-1 # 127		NARM #403800			
Other Procurement, Navy		AN/SSQ-110		PEO(A) PROGRAM			
3 - Aviation Support Equip - Sonobuoys		(EER) Extended Echo Ranging Sonobuoy					
	FY95	FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY (In Thous)							
COST (In Millions)	37.0	21.4	36.0	36.2	37.8	37.5	36.3

The AN/SSQ-110 is an air-dropped active source buoy to be used in conjunction with the AN/SSQ-77B to perform Extended Echo Ranging (EER) system active search.

The FY 95 contract has been awarded to Magnavox for a quantity of 43,956 AN/SSQ-110A's.

The FY 96 program provides for 23,312 AN/SSQ-110A's to be competed among qualified manufacturers.

The FY 97 budget request provides for 44,248 AN/SSQ-110A's to be competed among qualified manufacturers.

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OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		(DOD Exhibit P5)		Date:				
Appropriation/Budget Activity		P-1 Item Nomenclature		Subhead No.:				
Other Procurement, Navy		P-1 # 127		NARM #403800				
3 - Aviation Support Equipment -		AN/SSQ-110		PEO(A) PROGRAM				
Sonobuoys		(EER) Extended Echo Ranging Sonobuoy		U3QK				
		(Total Cost in Thousands, Quantity each)						
COST CODE	ELEMENT OF COST	ID CODE	FY-95		FY-96		FY-97	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QK001	AN/SSQ-110A	A		34,470		19,066		33,655
	Delivered to Fleet		42,740		22,613		42,921	
	Lot Acceptance Buoys		1,216		699		1,327	
QK830	PRODUCTION ENGINEERING			1,035		1,144		798
QK860	ACCEPTANCE TESTING			1,465		1,239		1,508
	T O T A L		43,956	36,970	23,312	21,449	44,248	35,961
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OTHER PROCUREMENT, NAVY PROCUREMENT HISTORY & PLANNING P-1 Item Nomenclature										(DOD Exhibit P5A)		Date:							
Appropriation/Budget Activity										Subhead No.:									
Other Procurement, Navy										P-1 # 127									
3-Aviation Support Equipment-										PEO(A) PROGRAM		U3QK							
Sonobuoys										(EER) Extended Echo Ranging Sonobuoy									
CON-TRACTOR & LOCATION										CON-TRACT METHOD AND TYPE	CON-TRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ?	IF YES, WHEN AVAILABLE		
ELEMENT OF COST FISCAL YEAR																			
FY 95																			
U3QK/ AN/SSQ-110A 001										MAGNAVOX INDIANA	C/FFP	NAWC IN	6/95	6/96	43,956	773.32	YES	NO	
FY 96																			
U3QK/ AN/SSQ-110A 001										SELECTED	C/FFP	NAWC IN	4/96	4/97	23,312	817.85	YES	NO	
FY 97																			
U3QK/ AN/SSQ-110A 001										SELECTED	C/FFP	NAWC IN	12/96	10/97	44,248	760.60	YES	NO	
REMARKS:																			

P-1 Shopping List Item No.

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UNCLASSIFIED CLASSIFICATION		OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN P-1 Item Nomenclature		(DOD Exhibit P5)		Date:				
Appropriation/Budget Activity		P-1 # 127 NARM #403800		Subhead No.:						
Other Procurement, Navy		AN/SSQ-110 PEO(A) PROGRAM								
3 - Aviation Support Equipment - Sonobuoys		(EER) Extended Echo Ranging Sonobuoy U3QK								
		(Total Cost in Thousands, Quantity each)								
COST CODE	ELEMENT OF COST	ID CODE	FY-98		FY-99		FY-00		FY-01	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QK001	AN/SSQ-110A	A		32,879		33,623		33,369		32,283
	Delivered to Fleet		35,148		43,590				38,670	
	Lot Acceptance Buoys		1,087		1,348				1196	
QK830	PRODUCTION ENGINEERING			1,613		2,018		2,003		1,937
QK860	ACCEPTANCE TESTING			1,747		2,185		2,169		2,098
	TOTAL		36,235	36,239	44,938	37,826	41,685	37,541	39,866	36,318
P-1 Shopping List Item No.			127			Page No				

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P-1 ITEM NOMENCLATURE SONOBUOYS (AN/SSQ-110)	PED(A) PROGRAM	Date
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P-1 ITEM NOMENCLATURE

SONOBUOYS (AN/SSQ-110) PED(A) PROGRAM

Date _____

[illegible]

OTHER PROCUREMENT, NAVY		(DOD Exhibit P40)		Date:	
BUDGET ITEM JUSTIFICATION SHEET		P-1 Item Nomenclature		P-1 # 128	
Appropriation/Budget Activity		NARM # 404200		PEO (A) PROGRAM	
Other Procurement, Navy		AN/SSQ-86 (DLC) SONOBUOY			
3 - Aviation Support Equip - Sonobuoys					
FY95		FY96		FY97	
FY98		FY99		FY00	
FY01					
QUANTITY (In Thous)					
COST (In Millions)	0.9	0.0	0.0	0.0	0.0
The AN/SSQ-86 Down Link Communication DLC Sonobuoy provides one-way acoustic communication between an ASW aircraft and a submerged submarine. It requires no avionics.					
The FY 95 contract has been awarded to Sparton for a quantity of 1,700 AN/SSQ-86's.					

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED CLASSIFICATION		(DOD Exhibit P5)		Date:	
OTHER PROCUREMENT, NAVY		PROGRAM COST BREAKDOWN		Subhead No.:	
Appropriation/Budget Activity		P-1 Item Nomenclature			
Other Procurement, Navy		P-1 # 128			
3 - Aviation Support Equipment -		NARM # 404200			
Sonobuoys		AN/SSQ-86 (DLC)		U3QN	
		SONOBUOY		(Total Cost in Thousands, Quantity each)	
		FY-95		FY-96	
		FY-97		FY-98	
		FY-99		FY-00	
		FY-01		FY-02	
		FY-03		FY-04	
		FY-05		FY-06	
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UNCLASSIFIED
CLASSIFICATION

OTHER PROCUREMENT, NAVY								Date:		
PROCUREMENT HISTORY & PLANNING										
P-1 Item Nomenclature										
Appropriation/Budget Activity										
Other Procurement, Navy										
3-Aviation Support Equipment-										
Sonobuoys										
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR & LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY DATE	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ?	IF YES, WHEN AVAILABLE
U3QN/ 001	FY 95 AN/SSQ-86	SPARTON FLORIDA	C/FFP	NAWC IN	2/95	12/95	1,700	YES	NO	

REMARKS:

OTHER PROCUREMENT, NAVY										(DOD Exhibit P40)		Date:			
BUDGET ITEM JUSTIFICATION SHEET										P-1 Item Nomenclature		P-1 # 129			
Appropriation/Budget Activity										NARM # 400500		PEO (A) PROGRAM			
Other Procurement, Navy															
3 - Aviation Support Equip - Sonobuoys										Signal, Underwater Sound (SUS)					
FY95										FY96	FY97	FY98	FY99	FY00	FY01
QUANTITY (In Thous)															
COST (In Millions)										0.0	0.0	1.1	1.4	1.4	1.4
Signal, Underwater Sound devices are expendable, high energy acoustic sources. The MK-84 is a non-explosive, electro-acoustic device which is launched from aircraft and transmits acoustic tones after water entry. The MK-84 SUS is used for training and exercise signaling to submarines.															
The FY 97 program provides for 3,700 SUS MK 84'S.															

UNCLASSIFIED

CLASSIFICATION

Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY PROGRAM COST BREAKDOWN		Date:				
Other Procurement, Navy		P-1 Item Nomenclature		Subhead No.:				
3 - Aviation Support Equipment -		P-1 # 129						
Sonobuoys		SIGNAL, UNDERWATER SOUND (SUS)		U3QH				
		(Total Cost in Thousands, Quantity each)						
COST CODE	ELEMENT OF COST	ID CODE	FY-95		FY-96		FY-97	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
QH003	SIGNAL UNDERWATER SOUND MK-84						978	
	DELIVERED TO FLEET					3607		
	LOT ACCEPTANCE BUOYS					93		
QH830	PRODUCTION ENGINEERING						67	
QH860	ACCEPTANCE TESTING						73	
T O T A L						3,700	1,118	
P-1 Shopping List Item No.			Page No					
129			2					

UNCLASSIFIED
CLASSIFICATION

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CLASSIFICATION

OTHER PROCUREMENT, NAVY										(DOD Exhibit P5A) Date:	
PROCUREMENT HISTORY & PLANNING										Subhead No.:	
P-1 Item Nomenclature										P-1 # 129	
Appropriation/Budget Activity										PEO(A) PROGRAM	
Other Procurement, Navy										U3QH	
3-Aviation Support Equipment--											
Sonobuoys											
COST CODE	ELEMENT OF COST FISCAL YEAR	CON- TRACTOR & LOCATION	CON- TRACT METHOD AND TYPE	CON- TRACTED BY	AWARD DATE	DATE OF FIRST DELIV- ERY	UNIT COST	QTY	SPECS AVAIL NOW? WHEN?	ARE SPEC REVI- SIONS REQ?	IF YES, WHEN AVAIL- ABLE
QH003	FY 97 SUS-MK 84	Not Selected	C/FFP	NAWC IN	12/96	10/97	264.32	3,700	YES	NO	
REMARKS:											

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CLASSIFICATION

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CLASSIFICATION

OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

MARCH 1996

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

This budget line item provides the resources to implement the Navy Fleet Training Range (FTR) Instrumentation Program Plan. These FTRs provide the primary means of fleet combat readiness training. The plan addresses the following major procurement areas: Electronic Warfare (EW) simulators, Weapons Impact Scoring Set (WISS) Replacement, Systems Replacement and Modernization (SRAM), Tactical Aircrew Combat Training Systems (TACTS), Communication Central Network Phase II (CCN-II), SOCAL Communications Upgrade and generic systems such as range computer systems, underwater training range systems and range tracking, simulation, and surveillance systems. The integral parts of these major range programs include but are not limited to the following: voice communications, weapons scoring systems, EW emitters/jammers, display consoles, radars, tracking subsystems, control/computation systems, display/debriefing subsystems, processors, HF/VHF/UHF receivers, transmitters/transceivers, multiplexers, intercom circuits, encoding devices, frequency interface control systems, power equipment, sonobouy tracking systems, bottom mounted underwater hydrophone systems, phase shift keying processors, and other specialized equipment.

Justification: Operational forces of the Navy's air, surface, and subsurface units are being equipped with the latest complex and sophisticated weapon systems to achieve and maintain high standards of fleet readiness. The FTRs must be furnished with training equipment capable of simulating, tracking, displaying, and debriefing the latest combat environments (e.g. electronic warfare). This equipment provides the Navy with the capability to: conduct safe fleet training exercises; achieve a high state of readiness; objectively evaluate training effectiveness as well as the strategy and tactics employed; evaluate the performance of equipment; and, to measure reliability and accuracy of operational weapon systems.

OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

NAVMAT FORM 7110.1

MARCH 1996

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

AIRCREW ELECTRONIC WARFARE TRAINING RANGES (AEWTR):

The AEWTR provides a simulated hostile EW environment in which aircrews can be trained. The AEWTR consists of operational ranges at NAS Fallon, NV; MCAS Yuma, AZ; and MCAS Cherry Pt, NC and other special purpose training sites; e.g. Whidbey. The Fallon, Cherry Pt, and Yuma EW ranges are being integrated into the TACTS ranges which are co-located there. The integration allows the TACTS system to provide 36 A/C tracking data to the EW range for EW emitter pointing and also allows EW debrief through the TACTS debriefing system.

FY 1995 funding integrated, (with Yuma TACTS), 4 Mobile IR Threat Systems known as the "Avenger". The Avenger system is a vehicle mounted system operated by the USMC units at MCAS Yuma. FY 1995 funding procured 7 Threat Radar Emitter Simulators (TRES) AN/GPQ-11(V)s for MCAS Yuma and the hardware and software necessary to integrate with TACTS. Also, FY 1995 funding provided interfaces for integration of Marine Air Command and Control Squadron (MACCS), Light Anti-Aircraft Missile (LAAM) Battalion and Low-Altitude Air Defense (LAAD) units at MCAS Cherry Point into TACTS to enhance target area threat density and diversity.

FY 1996 funding will procure 5 Threat Radar Emitter Simulators (TRES) for MCAS Yuma and the hardware and software necessary to integrate with TACTS.

WEAPONS IMPACT SCORING SET (WISS) REPLACEMENT:

The WISS is an electro-optical scoring system which scores inert and live ordnance weapons delivery at Fleet training ranges. This WISS Replacement Program will provide a complete change-out of existing outdated/obsolete WISS at the FTRs with an improved and logistically supportable system. FY 1995 funding will procure nine WISS (V4) systems. The first system will achieve IOC in September 1996. Installation support required in FY 95 is for site preparation at Camp Lejeune, and Okinawa. FY 1996 funding will procure 15 WISS (V4) systems. Installation support required for FY 96 is for site preparation at MCAS Cherry Point and NAF El Centro.

CLASSIFICATION

OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

MARCH 1996

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM):

The SRAM program provides for the procurement of numerous minor equipments/instrumentation needed at all Navy training ranges. SRAM procurements replace and modernize economically unmaintainable systems and equipment in order to increase range efficiency. Generally, the receiving activity will accomplish installation of these minor equipments; whereas, the more complex equipments may require installation support from other agencies. Funding for installation of minor equipment required in all years at all ranges.

TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS):

The TACTS was developed in the early 1970's in response to the large Aircrew losses in Vietnam. TACTS tracks aircraft and monitors weapon systems during training missions. Weapons simulations are run by the TACTS in response to aircrew actions. Results are displayed in real-time and recorded for post mission debrief. The original system was installed at Yuma, AZ and a follow-on system was installed at Oceana, VA.. Navy Decision Coordinating Paper (NDCP) W0431-AA established a requirement to continue development of new training techniques and capabilities through TACTS upgrades. The USAF has adopted the TACTS, renamed the Air Combat Maneuvering Instrumentation (ACMI), and more recently the Air Combat Training System (ACTS), as their standard aircrew training system. The latest generation 36 A/C system achieved an initial operating capability at Fallon NV in 1985. Other 36 A/C systems have been installed at Cherry Point, NC and Beaufort, SC. The Yuma and Oceana systems have also been upgraded to the 36 A/C configuration.

The FY 1995 program will procure, integrate and install at NAS Fallon/Nellis AFB a microwave link to provide real-time control of exercises at Nellis AFB from NAS Fallon. Threat system video, data, and voice communications will also be carried over the link. This will greatly enhance opportunities for joint training using the USN's and USAF's largest and most capable TACTS/ACTS range complexes. Installation support is required in FY-96 for site preparation at NAS Fallon. The FY 1996 program will upgrade the Yuma TACTS. This will improve TACTS tracking of aircraft operating at low altitudes around the existing target complex. Also, FY 1996 funding will upgrade TACTS Tracking Instrumentation for Cherry Point to provide coverage of the Camp Lejeune target areas. The FY 1997 program will replace the Control and Computational Subsystems (CCSs) at Fallon, Cherry Point, Beaufort, and Yuma TACTS. The older computers currently used in the CCSs at these ranges are expensive to operate and maintain and lack the processing capacity required to fully support recent and planned software enhancements.

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P-1 SHOPP LIST

ITEM NO. 130

PAGE NO.

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CLASSIFICATION

OTHER PROCUREMENT, NAVY								(DOD EXHIBIT P-40)	DATE
BUDGET ITEM JUSTIFICATION SHEET									MARCH 1996
NAVMAT FORM 7110.1		P-1 ITEM NOMENCLATURE							
BUDGET ACTIVITY 3		WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130							
AVIATION SUPPORT EQUIPMENT		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY									
COST (IN MILLIONS)		\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7	

SHALLOW WATER RANGE (SW RANGE):

Existing underwater ranges are situated in deep water and cannot provide training in ASW tactics employed in shallow coastal waters. A Mission Needs Statement (MNS) for Shallow Water training instrumentation has been endorsed by both Atlantic and Pacific fleets and signed by N8. Fixed instrumentation is required to preclude the recurring cost of periodic retrieval and maintenance of mobile systems. FY 1997 funds the LANTFLT requirement for the procurement of the initial increment of a 125 square NM shallow water range and range control equipment at Onslow Bay, NC.

COMMUNICATIONS UPGRADE (TWENTYNINE PALMS):

Certain training sites within the Twentynine Palms' operating area do not have communications with the Twentynine Palms BEARMAT control facility. FY 1997 funding will procure eight solar powered communications suites and a backbone microwave link back to BEARMAT for continuous communications with aircraft and ground personnel operating throughout the Twentynine Palms operating area. Installation support for FY97 is for site preparation at Twenty-Nine Palms.

COMMUNICATION CENTRAL NETWORK PHASE II (CCN-II):

CCN-I was funded in FY 1988 to provide digital communication switches to support three Tracking and Control (T&C) rooms at PMRF. CCN-II will complete the conversion of the PMRF range communications system from analog to digital equipment. The FY 1995 funds will provide new HF antennas, new VHF/UHF systems, modernize and consolidate the FM nets, provide new portable transceivers, upgrade the HF equipment, provide a new LAN and WAN, upgrade the communication switch, and upgrade the message center switch.

CLASSIFICATION

OTHER PROCUREMENT, NAVY
BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

NAVMAT FORM 7110.1

MARCH 1996

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

PACIFIC MISSILE RANGE FACILITY UPGRADE:

FY 1995 funding of \$21.5M will include the following projects: (1) \$2.5M for a range operations control system upgrade and improvements to range standard configurations; (2) \$1.0M to replace a launch pad sequencer to provide multiple missile launch capability; (3) \$3.0M to upgrade range airborne targets, missiles, and high performance aircraft; (4) \$1.5M to fund underwater tracking system processor upgrade from an analog to a digital system utilizing naval gunfire support simulator chassis; (5) \$4.55M to support several electronic warfare improvement projects including integration and workstations for distributed interactive simulations to improve training; (6) \$250K for torpedo weapon recovery boat improvements; (7) \$200K to acquire a periscope buoy for littoral warfare test and evaluation and training support; (8) \$2.0M for procurement and integration of a replacement high performance video tracker system including digital visual imaging improvements; (9) \$1.5M to procure three (3) command and control transmitters; (10) \$4.0M to procure remote launcher support activities; and (11) \$1.0M to acquire a full-scale target boat to support over-the-horizon firings and include provisions for integration of electronic warfare and target electronics systems to provide a realistic target capability.

FY 1996 funding of \$9.5M will include the following projects: (1) \$6.3M for the procurement of test range site integration equipment; (2) \$2.0M for the procurement of a mobile-periscope buoy; (3) \$.3M for the procurement of air defense system maintenance equipment and (4) \$.9M for the procurement of a computer replacement for the Joint Tactical Information Distribution System (JTIDS).

SOCAL COMM UPGRADE:

The existing data links at the remote training sites on San Clemente Island (SCI) and the range operations center (ROC) at North Island are inadequate to handle all of the data from new instrumentation systems. Planned training range instrumentation cannot be utilized until additional communication capability is provided. FY 1995 funding provided SOCAL with an upgraded data link between the ROC on North Island and Mt. Thirst on San Clemente Island. FY 1996 funding will add data links between the main microwave site on San Clemente and various remote equipment sites. The expanded capability is required to support OTH-T communications, Large Area Tracking Range (LATR), EW range expansion, and Joint Tactical Combat Training System (JTCTS). It will provide Mt. Thirst to REWS connectivity, North Island connectivity, RF systems upgrade, a LAMPS III Repeater, expanded digital data links between North Island and SCI, an HF Upgrade, and a VHF/UHF Upgrade.

DD Form 2454, JUL 88

P-1 SHOPP LIST

ITEM NO. 130

PAGE NO.

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

MARCH 1996

NAVMAT FORM 7110.1

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE

WEAPONS RANGE SUPPORT EQUIPMENT 43SC, P-1 # 130

	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS)	\$ 62.1	\$ 47.2	\$ 27.8	\$ 26.7	\$ 50.1	\$ 52.6	\$ 48.7

CHERRY POINT INFRASTRUCTURE:

The FY 1995 funding provided a Range Communication capability (MAEWR ROCC) with ships at sea. FY 1995 funding procured a Low Level Air/Surface Radar for MCB Camp Lejeune capable of detecting low-flying helicopter, private aircraft, and surface craft to ensure range safety. Installation support is required in FY-96 for site preparation at MCB Camp Lejeune, NC. Also, FY 1996 funding will provide communications among the various operating areas for exercise control and range safety. Installation support is required in FY 1997 to install consoles, workstations, and communications (UHF/VHF/Intercom) at Camp Lejeune, NC.

TELEMETRY EQUIPMENT:

The Telemetry Equipment program will upgrade and modernize equipment, inclusive of related target control systems/equipment, at Fleet Telemetry (TM) stations and the Pacific Missile Range Facility (PMRF). These stations are located in Greece, Puerto Rico, Virginia and Hawaii. Present telemetry stations are based on telemetry requirements established in the early 1970s. Since then, missiles have advanced in sophistication and complexity including a move from analog to digital technology. Prior year funding has provided modest on-going improvements and modernization program to replace least reliable equipments and meet the most urgent telemetry requirements for new weapon systems. The only exception being the Puerto Rico Station. Consequently, the stations have become increasingly difficult and expensive to maintain and are not suited to handling the new digital TM formats required by new emerging weapon systems.

FY 1995 funding completed upgrade of Oceana TM station.

FY 1996 funding will upgrade tracking, processing, and display elements of Portable Air-launched Missile Telemetry Acquisition System (PATAS).

FY 1997 funding will continue to upgrade the tracking, processing, and display elements of PATAS and upgrade the AFWTF TM station.

CLASSIFICATION

WEAPON SYSTEM COST ANALYSIS EXHIBIT

(DOD EXHIBIT P-5)

DATE

MARCH 1996

APPROPRIATION: OPN

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE P-1 # 130

SUBHEAD #.

AVIATION SUPPORT EQUIPMENT

WEAPONS RANGE SUPPORT EQUIPMENT

43SC

(Total cost in thousands of dollars)

COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
SC002	AIRCREW EW TRAINING RANGES	N/A		[9,254]		[3,188]		
	MAEWR							
	Threat Emitters		1	1,125				
	MACCS (Cherry Point)		7	6,020	5	3,188		
	Yuma		2	1,200				
SC003	Threat Emitters	N/A						
	Comm System Interface		4	909				
SC004	AVENGER							
SC003	WISS REPLACEMENT	N/A	9	3,919	15	8,073		
SC004	SYSTEMS REPLACEMENT AND MODERNIZATION (SRAM)	N/A	N/A	5,292	N/A	5,579	N/A	5,774
Exhibit P-5 Weapon System Cost Analysis			P-1 SHOPP. LIST ITEM NO. 130	PAGE NO. 7	UNCLASSIFIED CLASSIFICATION			

UNCLASSIFIED

CLASSIFICATION

WEAPON SYSTEM COST ANALYSIS EXHIBIT									
APPROPRIATION: OPN				(DOD EXHIBIT P-5)					
BUDGET ACTIVITY 3				P-1 ITEM NOMENCLATURE P-1 # 130					
AVIATION SUPPORT EQUIPMENT				WEAPONS RANGE SUPPORT EQUIPMENT					
				(Total cost in thousands of dollars)					
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996		FY 1997		
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
SC007	TACTICAL AIRCREW COMBAT TRAINING SYSTEM (TACTS)	N/A		[1,923]		[2,025]			
	Fallon/Nellis Microwave Link		1	1,923					
	Yuma Low Altitude TACTS Tracking				1	586			
	Cherry Point Upgrade				1	1,439			
	TACTS Control & Computational Subsystem						4	1,200	
SC012	SW RANGE (LANT)						1	13,260	
SC018	COMM UPGRADE (TWENTYNINE PALMS)	N/A					N/A	787	
SC027	CCN-II		1	6,000					
SC028	PACIFIC MISSILE RANGE FACILITY UPGRADE (PMRF)	N/A	1	21,500	1	9,462			
SC037	SOCAL COMM UPGRADE		N/A	1,000	N/A	5,899			
Exhibit P-5 Weapon System Cost Analysis			P-1 SHOPP. LIST ITEM NO. 130	PAGE NO. 8		UNCLASSIFIED CLASSIFICATION			

UNCLASSIFIED
CLASSIFICATION

WEAPON SYSTEM COST ANALYSIS EXHIBIT

(DOD EXHIBIT P-5)

DATE
MARCH 1996

APPROPRIATION: OPN

BUDGET ACTIVITY 3

P-1 ITEM NOMENCLATURE P-1 # 130
WEAPONS RANGE SUPPORT EQUIPMENT

SUBHEAD #.
43SC

COST CODE	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)					
			FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
SC040	CHERRY POINT INFRASTRUCTURE			[1,680]		[719]		
	MAEWR ROCC		1	380				
	Low Alt Tracking MCB Camp Lejeune		1	1,300				
	Comm Suite				1	719		
SC601	TELEMETRY		N/A	995	N/A	1,203	N/A	1,000
SC831	Production Engineering, Other Ranges	N/A	N/A	5,779	N/A	6,899	N/A	3,133
SC860	Acceptance Test & Evaluation	N/A	N/A	520	N/A	839	N/A	954
SC971	ILS, Other Ranges	N/A	N/A	2,026	N/A	2,093	N/A	869
SC900	Installations of Equip-Non FMP	N/A	N/A	2,223	N/A	1,258	N/A	816
	TOTAL			62,111		47,237		27,793

Exhibit P-5 Weapon System Cost Analysis

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ITEM NO. 130

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CLASSIFICATION

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BUDGET PROCUREMENT HISTORY AND PLANNING (DOD EXHIBIT P-5A)										DATE
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT										MARCH 1996
P-1 ITEM NOMENCLATURE P-1 # 130 WEAPONS RANGE SUPPORT EQUIPMENT										SUBHEAD NO. 43SC
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
<u>SC002 AIRCREW EW</u>										
<u>CHERRY POINT</u> MACCS	NAWC-WD CHINA LAKE, CA	PX	NAVAIR	12/94	01/97	1	1,125	YES	NO	N/A
<u>YUMA:</u> Threat Emitters	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	12/94	06/96	7	*6,020	YES	NO	N/A
	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	03/96	09/97	5	*3,188	YES	NO	N/A
Comm System Interface	CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	12/94	06/96	2	*1,200	YES	NO	N/A
Avenger Integration	NAWC-WD CHINA LAKE, CA	PX	NAVAIR	12/94	06/96	4	227	YES	NO	N/A
REMARKS:										

BUDGET PROCUREMENT HISTORY AND PLANNING										(DOD EXHIBIT P-5A)		DATE	
BUDGET ACTIVITY 3										MARCH 1996		SUBHEAD NO.	
AVIATION SUPPORT EQUIPMENT										P-1 ITEM NOMENCLATURE P-1 # 130		43SC	
WEAPONS RANGE SUPPORT EQUIPMENT													
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE?			
SC003 WISS REPL	1995 NWAD, CORONA, CA	PX	NAVAIR	12/94	01/96	9	***3,919	YES	NO	N/A			
	1996 NWAD, CORONA, CA	PX	NAVAIR	02/96	03/97	15	***8,073	YES	NO	N/A			
SC004 SYS REPL & MOD													
1995	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/95	N/A	5,292	YES	NO	N/A			
1996	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/96	N/A	5,579	YES	NO	N/A			
1997	VARIOUS	VARIOUS	FED IND SUP CTR	**	08/97	N/A	5,774	YES	NO	N/A			

REMARKS:

* Unit cost varies with Threat Configuration: Total cost shown.

** SRAM consists of approximately 70 projects each FY with award dates starting when funds are released and continuing until 31 MARCH of current FY.

*** Total cost is shown. Unit cost will vary by site, due to unique turnkey installation requirements and range unique configurations.

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BUDGET PROCUREMENT HISTORY AND PLANNING											
(DOD EXHIBIT P-5A)											
APPROPRIATION		DATE									
OPN		MARCH 1996									
BUDGET ACTIVITY 3		SUBHEAD NO.									
AVIATION SUPPORT EQUIPMENT		43SC									
P-1 ITEM NOMENCLATURE P-1 # 130											
WEAPONS RANGE SUPPORT EQUIPMENT											
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?	
SC007 TACTS											
FALLON/NELLIS LINK	1995NWAD, CORONA, CA	PX	NAVAIR	12/94	02/97	1	1,923	YES	NO	N/A	
YUMA LOW ALT TACTS	1996ADTI SAN DIEGO, CA	C/FFP	NAWC-AD PX, MD	03/96	01/97	1	586	YES	NO	N/A	
CHERRY PT UPGRADE	1996ADTI SAN DIEGO, CA	C/FFP	NAWC-AD PX, MD	03/96	04/97	1	1,439	YES	NO	N/A	
TACTS CCS	1997CTA RIDGECREST, CA	CPAF	NAWC-WD CL, CA	11/96	10/97	4	300	09/96	N/A	N/A	
SC012 SW RANGE	1997TBD	FPIF	NAVAIR	12/96	12/98	1	13,260	06/96	NO	N/A	
SC018 COMM UPGRADE	1997NWAD, CORONA CA	PX	NAVAIR	12/96	12/98	N/A	787	YES	NO	N/A	
TWENTY-NINE PALMS											
SC027 CCN-II	1995VARIOUS	C/FFP/PO	NISE-W S.D., CA	12/94	11/96	1	6,000	YES	NO	N/A	
SC028 PMRF UPGRADE	1995VARIOUS 1996VARIOUS	PX PX	NAVAIR NAVAIR	11/95 08/96	03/96 02/97	1 1	21,500 9,462	YES YES	NO NO	N/A N/A	
UNCLASSIFIED											
CLASSIFICATION											
DD Form 2446-1, JUL 87			P-1 SHOPP. LIST ITEM NO. 130	PAGE NO. 12							

UNCLASSIFIED

CLASSIFICATION

APPROPRIATION

OPN

(DOD EXHIBIT P-5A)

DATE

MARCH 1996

BUDGET PROCUREMENT HISTORY AND PLANNING

BUDGET ACTIVITY 3

AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE P-1 # 130

WEAPONS RANGE SUPPORT EQUIPMENT

SUBHEAD NO.

43SC

LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAIL?
SC037 SOCIAL COMM UPGRADE	1995 ALCALTEL DALLAS, TX	C/FFP	NISE-W S.D., CA	12/94	03/95	N/A	1,000	YES	NO	N/A
1996	NISE-W S.D., CA	PX	NAVAIR	02/96	02/98	N/A	5,899	YES	NO	N/A
SC040 CHERRY POINT INFRASTRUCTURE	1995	C/FFP/PO	NAWC-AD PAX, MD	12/94	12/96	1	380	YES	NO	N/A
MAEWR ROCC	VARIOUS	C/FFP/PO	NWAD, CA	01/95	02/97	1	1,300	YES	NO	N/A
LOW ALT TRK	VARIOUS	C/FFP/PO	NAVAIR	03/96	04/97	1	719	YES	NO	N/A
COMM SUITE	NAWC-AD PAX, MD	C/FFP/PO	NAVAIR	03/96	04/97	1	719	YES	NO	N/A
SC601 TELEMETRY	1995	C/FFP/PO	NWAD, CA	12/94	06/96	N/A	995	YES	NO	N/A
1996	Various	C/FFP/PO	NWAD, CA	02/96	08/97	N/A	1,203	YES	NO	N/A
1997	Various	C/FFP/PO	NWAD, CA	12/96	06/98	N/A	1,000	YES	NO	N/A

REMARKS:

DD Form 2446-1, JUL 87

P-1 SHOPP. LIST ITEM NO. 130	PAGE NO 13
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UNCLASSIFIED CLASSIFICATION

P-1 LINE ITEM # 130

Weapons Range Support Equipment

MODIFICATION INSTALLATION SUMMARY

(TOA, DOLLARS IN MILLIONS)

SYSTEM/MODIFICATION	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL
SRAM	0.7	0.7	0.7	0.4	0.6	0.5	0.7	4.3 1/
WISS	0.8	0.2	-	-	-	-	-	1.0 1/
LATR	0.7	-	-	-	-	-	-	0.7
EWROC	0.1	-	-	-	-	-	-	0.1 1/
LOW LEVEL (CH PT)	-	0.2	-	-	-	-	-	0.2 1/
FALLON/NELLIS LINK	-	0.2	-	-	-	-	-	0.2 1/
CH PT UPGRADE	-	-	0.1	-	-	-	-	0.1
MAEWR EW	-	-	-	-	-	0.9	0.7	1.6 1/
TOTAL	2.3*	1.3	0.8	0.4	0.6	1.4*	1.4	8.2

* NUMBERS ARE ROUNDED.

1/-Actual labor costs for installing equipment are budgeted on a turnkey basis with equipment costs. Budgeted installation amounts shown reflect funding required for site preparation and advanced planning only. Based on this, no P-3A exhibits were included in this submission for these items.

P-1 LINE ITEM # 130
Weapons Range Support Equipment
MODIFICATION TITLE: CHERRY POINT UPGRADE

INDIVIDUAL MODIFICATION

MODELS OF SYSTEMS AFFECTED: N/A

DESCRIPTION/JUSTIFICATION: The future Littoral Warfare Training Complex (LWTC) will link existing independent training areas, facilities, and instrumentation assets to form an expanded training complex to support NAVAL/JOINT Force Training requirements. Existing training assets proposed to be linked with LWTC include; VACAPES operating areas, Navy Dade County Mid-Atlantic EW Range, Cherry Point TACTS, MCOLF Atlantic, MCALF Bogue, Camp Lejeune, Camp Geiger, Camp Davis, and MCAS New River.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

FINANCIAL PLAN: (\$ IN MILLIONS)

FY95 & PRIOR		FY96		FY97		FY98		FY99		FY00		FY01		FY02		TO COMP		TOTAL	
QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$

PROCUREMENT

KIT QUANTITY

INSTALLATION KITS (\$000)

INSTALLATION KIT NONRECURRING

INSTALLED EQUIPMENT

ENGINEERING CHANGE ORDERS

DATA

TRAINING EQUIPMENT

SUPPORT EQUIPMENT

TOTAL PROCUREMENT COST

INSTALLATION OF MODIFICATION HARDWARE

FY 96 EQUIPMENT (1 KITS)

TOTAL INSTALLATION COST

TOTAL COST

METHOD OF IMPLEMENTATION:

CONTRACT DATE:

PROD DEL DATE:

INSTALL SCHEDULE:

INPUT FY96

OUTPUT FY96

1 2 3 4

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EXHIBIT P-3A

P-1 LINE ITEM # 130

INDIVIDUAL MODIFICATION

Weapons Range Support Equipment

MODIFICATION TITLE: LARGE AREA TRACKING RANGE

MODELS OF SYSTEMS AFFECTED: Mobile Sea Range (MSR), Tactical Aircrew Combat Training System (TACTS) DESCRIPTION/JUSTIFICATION: LATR will provide air and surface tracking out to a range of 500 nautical miles. It will provide real-time monitoring of the training exercise for the battle group commander and post exercise debrief for all surface participants and remote land sites. Installation of LATR will take place at SOCAL and VCAPES. Installation support is required in FY-95 to install LATR at SOCAL and VCAPES.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: (In Production) N/A

FINANCIAL PLAN: (\$ IN MILLIONS)		FY95 & PRIOR										TOTAL	
PROCUREMENT		QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
KIT QUANTITY													
INSTALLATION KITS (\$000)													
INSTALLATION KIT NONRECURRING													
INSTALLED EQUIPMENT													
ENGINEERING CHANGE ORDERS													
DATA													
TRAINING EQUIPMENT													
SUPPORT EQUIPMENT													
TOTAL PROCUREMENT COST		2	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	18.9
INSTALLATION OF MODIFICATION HARDWARE													
FY93 EQUIPMENT		2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	0.7
TOTAL COST		2	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2	19.6

METHOD OF IMPLEMENTATION:

Contract Date: FY 1993: 2Q/FY93

Production Delivery Date: FY 1993: 4Q/FY95

INSTALLATION SCHEDULE:

		FY95				FY96				FY97				FY98				FY99				FY00				FY01				FY02				TO COMP				TOTAL			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4								
INPUT	FY93																																								
OUTPUT	FY93																																								

Contractor/Field Contact Team

ADMIN LEADTIME: 6 MOS

PRODUCTION LEADTIME: 29 MOS

EXHIBIT P-3A

P-1# 130 Pg. 13C

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*- Procured with FY-93 funding.

UNCLASSIFIED
CLASSIFICATION

DATE MARCH 1996

REQUIREMENTS STUDY NOT INSTALLED NONCONSUMABLES

APPROPRIATION/BUDGET ACTIVITY
3 AVIATION SUPPORT EQUIPMENT

P-1 ITEM NOMENCLATURE # 130
43SC WEAPONS RANGE SUPPORT EQUIPMENT P-1

ITEM	TOTAL I.O. RQMNT	QTY ON HAND AND NOT IN USE	QTY IN USE	QTY DUE IN W/FY95 AND PRIOR FUNDS	PLANNED BUDGET YEAR PROCUREMENT 96	PLANNED BUDGET YEAR PROCUREMENT 97	BALANCE	PHASING RATIONALE
1. SC001 REWS EWRM	2	0	*1	0	0	0	1	
SC002 AIRCREW EW								
2. THREAT EMITTER	146	0	30	19	5	0	92	FISC CONSTRAINTS
3. MACCS	1	0	0	1	0	0	0	
4. AVENGER	6	0	0	4	0	0	2	FISC CONSTRAINTS
5. SC003 WISS	24	0	0	9	15	0	0	
6. SC007 FALLON/NELLIS	1	0	0	1	0	0	0	
7. SC007 YUMA LOW ALT	1	0	0	0	1	0	0	
8. SC007 CHERRY PT UPDR	1	0	0	0	1	0	0	
9. TACTS CCS	4	0	0	0	0	4	0	
10. SC012 SW RANGE	4	0	0	*1	0	1	2	FISC CONSTRAINTS
ITEM #1	ITEM #2	ITEM #3		ITEM #4		ITEM #5		
SC001 RANGE EW SIM	SC002 AIRCREW EW	SC002 AIRCREW EW		SC002 AVENGER:		SC003 WISS:		
EWRM:	THREAT EMITTERS:	MACCS:						
AFWTF	YUMA	CHERRY PT.		MCAS YUMA		LANT		
SOCAL*	FALLON	TOTAL		TOTAL		PAC		
TOTAL	CHERRY					TOTAL		
	PINECAS							
	TOTAL							
* 1 R&D FUNDED UNIT	21	1		6		10		
	68	1		6		14		
	49	1				24		
	8							
	146							
ITEM #6	ITEM #7	ITEM #8		ITEMS #9		ITEM #10		
SC007 FALLON/NELLIS:	SC007 YUMA LOW ALT:	SC007 CHERRY PT UPGRADE:		SC007 TACTS CCS		SC012 SW RANGE:		
NAS FALLON	MCAS YUMA	MCAS CH PT		NAS FALLON		LANT		
TOTAL	TOTAL	TOTAL		MCAS CH PT		CAMP LEJ		
				TOTAL		PAC		
						PMRF *		
				MCAS YUMA		SOCAL		
						WESTPAC		
						TOTAL		
						4		

* PMRF FUNDED WITH RDT&E.

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EXHIBIT P-23B

UNCLASSIFIED
CLASSIFICATION

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)	Date
							MARCH 1996
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		P-1 Item Nomenclature		P-1 # 131	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		EXPEDITIONARY AIRFIELD					
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS):		\$2.5	\$1.6	\$1.4	\$5.2	\$3.0	\$8.0
EXPEDITIONARY AIRFIELDS (EAF)							
<p>This program provides for procurement of aircraft recovery equipment, landing mat and accessories, airfield lighting, and visual landing aids investment items for Naval Aviation Expeditionary Airfields (EAF).</p> <p>This core funding level directly supports the procurement and fielding of operational expeditionary airfield systems in the three active duty Marine Aircraft Wings and one Reserve Marine Aircraft Wing, testing and training installations, and the contingency assets for use by the Marine Expeditionary Forces during contingency operations.</p> <p>A total of forty-four (44) mobile arresting gear systems as well as associated equipment and accessories are procured and fielded with these funds. Equipment procurements are based on inventory shortfalls; a product improvement program to fill or correct known deficiencies; modernizing the EAF equipment to improve maintainability, reliability, and safety-of-flight operations; and to keep pace with new aircraft and aircraft systems. Additionally, equipment procurements will facilitate forward deployment of EAF systems aboard Rapid Deployment Force/ Maritime Prepositioning Squadron (RDF/MPS) ships which is a new operational requirement under the Marine Corp Master Plan, the Enhanced Maritime Prepositioning Squadron (EMPS) requirement, and the EAF 2000 concept.</p> <p>The FY 1996 program provided for F-70 Tool Kit service change, production engineering and integrated logistics support for EAF procurement products, and qualification testing and evaluation for the M-29 Arresting Gear.</p> <p>The FY 1996 program provides for service change kit procurements to upgrade the aged M-21 Arresting Gear to a safe condition until the M-31, next generation Marine Corp mobile Arresting Gear, is fully on line, F-70 Tool Kit service changes, Flatrack service changes to accommodate positioning EAF assets on MPS, and production engineering and integrated logistics support for EAF procurement products.</p> <p>The FY 1997 budget request provides for service change kit procurements for Flatracks to accommodate pre-positioning EAF assets on MPS, and production engineering and logistics support for EAF procurement products.</p>							
P-1 SHOPPING LIST.		PAGE NO.		UNCLASSIFIED			
ITEM NO. # 131		1					

UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		: Date : MARCH 1996	
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		: P-1 Item Nomenclature		P-1 # 131		: SUBHEAD No.	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		EXPEDITIONARY AIRFIELD						: 43SE	
Element of Cost	: Ident. : Cost	: FY 1995	: (Total cost in thousands of dollars)	: FY 1996	: FY 1997				
		Qty	Total Cost : Qty	Total Cost : Qty	Total Cost : Qty	Total Cost : Qty	Total Cost : Qty	Total Cost : Qty	Total Cost
SE010 Service Change Kits	A		800	2,832	1,225				
SE026 M-29 Arresting Gear	A		0	1,354	0				
SE800 Integrated Logistic Supp	N/A		125	283	201				
SE830 Production Engineering	N/A		300	309	134				
SE860 Acceptance Test & Eval	N/A		1,258	0	0				
TOTAL			2,483	4,778	1,560				
								</	

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996
UNCLASSIFIED											
A. APPROPRIATION / BUDGET ACTIVITY		B. P-1 ITEM NOMENCLATURE									
OPN-3 Aviation Support Equipment		A/C Rearming Equipment									
FISCAL YEARS		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001			
QUANTITY											
COST (in millions)		8.7	7.3	9.3	10.4	13.2	13	13.2			
<p>Program Description</p> <p>This program funds the procurement of common Armament Support Equipment (ASE) and common Weapons Support Equipment (WSE) under the procurement and inventory control of the NAVAL ICP (Aviation Supply Office (ASO) Philadelphia, and Ships Parts Control Center (SPCC), Mechanicsburg) and the Naval Air Systems Command.</p> <p>This budget line supports: (a) initial outfitting for all in-production weapons systems; (b) new support equipment (SE); and (c) elimination of the severe shortage of Armament Weapon Support Equipment (AWSE). These shortages prevent support of sustained operations and surge deployment of our CV battle groups.</p> <p>Shipboard/Shorebased WSE is utilized by weapons departments to handle, transport, and maintain weapons. Examples of this equipment are the A/S32K-1D USMC Weapons Loader, Linkless Ammunition Loading System, (LALS II), Common Detent Tester, A/E32K-3 RAMS, MHU-202/M Munitions Trailer, and the LALS Replenisher.</p> <p>Shipboard/Shorebased ASE is utilized by squadrons and supporting activities to load and service aircraft weapons and guns.</p>											

Exhibit P-40

Page No.

P-1 Shopping List
Item No. 132

1

UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)					D. Date		March 199
A. Appropriation/Budget Activity		B. P-1 Item Nomenclature							
OPN-3 Aviation Support Equipment		A/C Rearming Equipment							
Element of Cost	IDENT CODE	FY 1995			(Total cost in thousands of dollars)			FY 1997	
		Qty	Total Cost	Qty	FY 1996	Total Cost	Qty	Total Cost	Total Cost
SH004 - Shipboard/Shorebased WSE									
A/S32K-1D WEAPONS LOADER	A	18	1,429						
COMMON DETENT TESTER	A	58	192						
A/E32K-3 RAMS	A	12	763						
MHU-202/M MUNITIONS TRAILER	A	81	547						
LALS REPLENISHES	A	36	994						
K4A/13B MUNITION TRAILER	A	0	1,425						
LALS II	A	2	829	29		5,416	45	7,470	
Sub Total			6,041			5,416		7,470	
SH830 - Production Engineering			2,129			1,563		1,601	
SH860 - Accept Test and Evaluation			481			304		250	
Grand Total			8,651			7,283		9,321	
					P-1 Shopping List Item No. 132	Page No. 2	Exhibit P-5 Weapon System Cost Analysis		

UNCLASSIFIED

A. Date March 1996

BUDGET HISTORY PLANNING

B. Appropriation / Budget Activity

OPN-3 Aviation Support Equipment

C. P-1 Item Nomenclature
A/C Rearing Equipment

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION City, State	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST (\$K)	Specs Avail now/ When?	SPEC REV REQD?	IF YES WHEN AVAIL?
A/S32K-1D WPNS LOADER FY 1995	DEVAL CORP Philadelphia, PA	FP/Option	NAWC AD LKE NJ	1/23/95	7/1/96	18	79.4	YES	NO	
COMMON DET TESTER FY 1995	DNR MACHINE Philadelphia, PA	FP/Option	NAWC AD LKE NJ	5/16/95	2/1/96	58	3.3	YES	NO	
A/E32K-3 RAMS FY 1995	D&D MACHINE San Antonio, TX	MIPR/AF	KELLY AFB TX	6/19/95	3/29/96	12	63.6	YES	NO	
MHU-202/M MUNIT TRAIL FY 1995	VERVAL ENTERPRISES Ft Walton Beach, FL	FP/Option	NAWC AD LKE NJ	3/2/95	4/1/96	81	6.7	YES	NO	
LALS REPLENISHER FY 1995	WESTERN DESIGN CORP Irvine, CA	FP/Option	NAWC PT MUGU	8/1/95	9/1/96	35	27.6	YES	NO	
LALS II FY 1995	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	9/1/96	2	414.5	YES	NO	
FY 1996	WESTERN DESIGN CORP	FP/Option	NAWC PT MUGU	12/23/95	9/1/96	29	186.8	YES	NO	
FY 1997	WESTERN DESIGN CORP Irvine, CA	FP/Option	NAWC PT MUGU	12/1/96	9/1/97	45	166.0	YES	NO	

REMARKS:

P-1 Shopping List
Item No. 132Page No.
3

Exhibit P-SA Procurement History and Planning

UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)	Date
							MARCH 1996
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY		: P-1 Item Nomenclature		P-1# 133	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT				AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (ALRE) (Formerly Catapults and Arresting Gear)			
		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (IN MILLIONS):		\$35.0	\$29.0	\$29.1	\$39.3	\$43.4	\$37.9
<p>This program, formerly Catapults/Arresting Gear/VLA supt. (CATS/AG), provides for procurement of major aircraft launch, recovery, and visual landing aids equipment as well as ancillary items required for installation in aircraft carriers, amphibious ships, and shore stations.</p> <p>Most procurements respond to: (1) urgent fleet problems associated with the operation and maintenance of existing equipment, (2) expanding responsibilities in support of helicopter operations on air capable ships and (3) the demand for increased launch and recovery equipment reliability and capacity.</p> <p>Shipboard-installed items procured under this program are for operational fleet carriers, air-capable, and amphibious ships. Major equipment and service changes procured in support of the Fleet Modernization Program (FMP) are generally installed by shipyard personnel during routine or restricted availabilities or regular overhauls. Non-FMP installations include minor equipments and service changes that are installed by Alteration Installation Teams (AIT) or Voyage Repair Teams (VRT) from the Naval Aviation Depots (NADEPS) under the direction of the Type Commanders and the Naval Air Warfare Center, Aircraft Division, Lakehurst, NJ. Type Commanders determine shorebased installed item requirements.</p> <p>The FY 1995 program consists of service change procurements, including safety and reliability service changes for CVN Catapults and Arresting Gears, commercial Optical Landing Aids, and Visual Landing Aids for CV/ACS; PE; ILS and FMP/NFMP installations for FY 1995 and prior years' procurements, including VISTOLS OLS.</p> <p>The FY 1996 program consists of service change procurements, Catapult, CV, Arresting Gear, CV, Helicopter Landing Systems (ACS), Visual Landing Aids, CV, Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, ACS; PE; ILS, and FMP/NFMP installations for FY 1996 and prior years' procurements.</p> <p>The FY 1997 budget request consists of service change procurements, Catapult, CV (Improved C-13-2 MOD Piston and Low Loss Launch Valve), Arresting Gear, CV, Helicopter Landing Systems (HL-S), ACS, Visual Landing Aids (CV/ACS), Marking and Lighting, Catapult Support Equipment, CV, ILARTS, CV, and Visual Landing Aids, CV, PE; ILS; P-26 Fire Truck and FMP/NFMP installations for FY 1997 and prior years' procurements.</p>							
P-1 SHOPPING LIST.		PAGE NO.		1		UNCLASSIFIED	
ITEM NO. # 133							

UNCLASSIFIED		WEAPON SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)	Date
Appropriation/Budget Activity OTHER PROCUREMENT, NAVY		: P-1 Item Nomenclature # 133					MARCH 1996
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		: AIRCRAFT LAUNCH & RECOVERY EQUIPMENT					
		: (Formerly Catapults and Arresting Gear)					
Element of Cost		: Ident :	: Cos :	: (Total cost in thousands of dollars)			
				FY 1995	FY 1996	FY 1997	
		: Qty :	: Total Cost :	: Qty :	: Total Cost :	: Qty :	: Total Cost :
SJ040 SERVICE CHANGE KITS	Catapults, CV	A	8,478		1,710		6,036
	Arresting Gear, (E-28), Shore		(1,988)		(923)		(5,636)
	Arresting Gear, CV		0		0		0
	Helicopter Landing Sys. (HLS), ACS		(524)		(18)		0
	Visual Landing Aids, CV		(660)		0		(400)
	Marking and Lighting		(950)		(10)		0
	Wind Measuring Inst. Sys. (WMIS)		(696)		0		0
	Catapult Support Equipment, CV		(292)		0		0
	Integrated Launch & Recovery		(2,349)		0		0
	Television Sys. (ILARTS), CV		(814)		(427)		0
SJ050 MINOR EQUIPMENT UNDER \$100K	Visual Landing Aids (VLA), ACS		(205)		(332)		0
		A	195		0		0
	AS/32P-25 FIRE TRUCK	B	0	0	0	56	8,219
	INTEGRATED LOGISTICS SUPPORT		1,162		713		563
	PRODUCTION ENGINEERING		2,248		1,810		1,907
	ACCEPTANCE TEST & EVAL		20		4		94
	INSTALLATION - NFMP		14,379		8,110		8,281
	INSTALLATION - FMP		8,533		3,050		3,875
	TOTAL		35,015		15,397		28,975
		P-1 Shopping List	Page No.	Exhibit P-5 Weapon System Cost Analysis			
		Item No. # 133	2	UNCLASSIFIED			

UNCLASSIFIED		WEAPONS SYSTEM PROCUREMENT HISTORY AND PLANNING				(DOD EXHIBIT P-5A)		Date		MARCH 1996	
Appropriation/Budget Activity		OTHER PROCUREMENT, NAVY				P1 NO. # 133		SUBHEAD No.		43SJ	
3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIPMENT		AIRCRAFT LAUNCH & RECOVERY EQUIPMENT				(Formerly Catapults and Arresting Gear)					
LINE ITEM/FISCAL YEAR	CONTRACTOR / LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST (\$K)	SPECS AVAIL : NOW	ARE SPEC : REVISION	IF YES : WHEN	AVAIL
TBD AS/32P-25 FY 1997	The Entwistle Company Hudson, MA	Option to EMD * Contract (CPI w/ successive targets)	NAWC AD LKE	11/96	10/97	56	146.8	NO - 7/96	N/A	N/A	
REMARKS: *Engineering & Manufacturing Development											
P-1 Shopping List		Item No. : # 133		Page No. : 3		Exhibit P-5A Procurement History and Planning		UNCLASSIFIED			

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

Date: MARCH 1996

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

System/Modification	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TOTAL
SERVICE CHANGES								
CV/CVN	16.7	7.6	7.8	4.2	9.6	9.1	8.5	63.5
Air Capable Ships (ACS)	4.8	1.9	3.6	3.2	3.6	2.5	2.6	22.2
Shore	0.6	0.1	0.0	0.1	0.1	0.1	0.2	1.2
LRLS(CV/CVN) 1/	0.0	0.0	0.0	0.2	1.1	0.5	0.0	1.8
LRLS(Shore) 1/	0.0	0.0	0.0	0.0	0.6	0.7	0.7	2.0
ISIS/ADMACS 1/	0.0	0.0	0.0	0.0	1.2	1.2	3.0	5.4
IFLOLS(CV/CVN) 1/	0.0	0.0	0.0	0.0	0.6	1.2	1.5	3.3
IFLOLS(Shore) 1/	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.3
V/STOL OLS	0.8	1.6	0.8	0.0	0.0	0.0	0.0	3.2
Total for SERVICE CHANGES, V/STOL OLS, LRLS, ISIS/ADMACS, IFLOLS	22.9	11.2	12.2	7.7	16.8	15.9	17.2	103.9

1/ P-3a exhibits for FY-98 and beyond new starts are not included in this submission.

Date MARCH 1996

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: CV&CVNs

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capacity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)	FY95/ PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		COST TO COMPLETE		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&N																		
PROCUREMENT																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment																		
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
FY-95/Prior																		
FY-96																		
FY-97																		
FY-98																		
FY-99																		
FY-00																		
FY-01																		
To Complete Equipment																		
Total Installation Cost																		
Total Procurement Cost																		

METHOD OF IMPLEMENTATION: Open Competition

CONTRACT DATES:

DELIVERY DATE:

ADMINISTRATIVE LEAD TIME: Various

PRODUCTION LEAD TIME: Various

INSTALLATION SCHEDULE:	FY-95/PRIOR				FY-96				FY-97				FY-98				FY-99				FY-00				FY-01				TO COMPLETE				TOTAL			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
INPUT																																				
OUTPUT																																				

FOOTNOTES:

- * Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.
- AP Advance Planning.

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

Date MARCH 1996

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: Air Capable Ships (ACS)

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment, and (2) the demand for increased launch and recovery equipment reliability and capability.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)	FY95/ PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		COST TO COMPLETE		TOTAL	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																		
PROCUREMENT																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment																		
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware "																		
FY-85/PRIOR																		
FY-96																		
FY-97																		
FY-98																		
FY-99																		
FY-00																		
FY-01																		
To Complete Equipment																		
Total Installation Cost																		
Total Procurement Cost																		

METHOD OF IMPLEMENTATION: Open Competition

CONTRACT DATES:

DELIVERY DATE:

INSTALLATION SCHEDULE:	FY-85/PRIOR				FY-96				FY-97				FY-98				FY-99				FY-00				FY-01				TO COMPLETE				TOTAL											
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4												
INPUT	Various				Various				Various				Various				Various				Various				Various				Various				Various				Various							
OUTPUT	Various				Various				Various				Various				Various				Various				Various				Various				Various				Various				Various			

FOOTNOTES:

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.
AP Advance Planning.

AIRCRAFT LAUNCH & RECOVERY EQUIPMENT (Formerly Catapults and Arresting Gear)

Date MARCH 1996

MODIFICATION TITLE AND NO: Service Changes

MODELS OF SYSTEMS AFFECTED: Shore Facilities

DESCRIPTION/JUSTIFICATION: Service changes respond to (1) urgent fleet problems associated with the operation and maintenance of existing equipment and (2) the demand for increased launch and recovery equipment reliability and capacity.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: Various

FINANCIAL PLAN: (\$ in Million)

FY95/ PRIOR	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	COST TO COMPLETE	TOTAL
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty

RDT&E

PROCUREMENT

Kit Quantity
Installation Kits
Installation Kit Nonrecurring
Equipment
Equipment Nonrecurring
Engineering Change Orders
Data
Training Equipment
Support Equipment
Other
Interim Contractor Support
Installation of Hardware
FY-95/PRIOR
FY-96
FY-97
FY-98
FY-99
FY-00
FY-01

*	2.3	*	0.1	*	0.4	*	0.7	*	0.2	*	0.7	*	0.5	*	2.0	*	6.9
*	0.8	*	0.1	*	0.0 @	*	0.0 @	*	0.1	*	0.1	*	0.2	*	0.1	*	0.9
																	0.1
																	0.1
																	0.1
																	0.1
																	0.2
																	0.1
																	0.0 @
																	0.0
																	1.5
																	8.4

Total Procurement Cost

METHOD OF IMPLEMENTATION: Open Competition

CONTRACT DATES:

DELIVERY DATE:

PRODUCTION LEAD TIME: Various

FY 95: Various

FY 96: Various

FY 97: Various

FY 98: Various

FY 99: Various

FY 00: Various

FY 01: Various

FY 02: Various

INSTALLATION SCHEDULE:

INPUT

OUTPUT

FY-95/PRIOR	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TOTAL
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Various	Various	Various	Various	Various	Various	Various	Various
Various	Various	Various	Various	Various	Various	Various	Various

FOOTNOTES:

* Reflects numerous service changes of varying types on various Aircraft Launch and Recovery Equipment.
AP Advance Planning.
@ Less than \$50,000.00.

MODIFICATION TITLE AND NO: Vertical /Short Take Off and Landing Optical Landing System (VISTOL OLS)

DESCRIPTION/JUSTIFICATION: OPTICAL LANDING AID FOR AMPHIBIOUS ASSAULT SHIPS TO PROVIDE DAY/NIGHT ALL WEATHER VISTOL LANDING CAPABILITY.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES: FULL SCALE DEVELOPMENT / TESTING TO COMPLETED 2/94. IN PRODUCTION

FINANCIAL PLAN: (\$ in Million)

	FY95/ PRIOR	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	COST TO COMPLETE	TOTAL
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RD TEN									0.0
PROCUREMENT									
Kit Quantity	9	7.4						9	7.4
Installation Kits									0.0
Installation Kit Nonrecurring									2.4
Logistic Support	2.4								
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment	5	4.1						5	4.1
Support Equipment		0.6							0.6
Other									0.0
Interim Contractor Support									
Installation of Hardware **									
FY-95/PRIOR (14 Kits)	0	0.8	10	1.6	4	0.8		14	3.2
FY-96									0.0
FY-97									0.0
FY-98									0.0
FY-99									0.0
FY-00									0.0
FY-01									0.0
To Complete Equipment	0	0.8	10	1.6	4	0.8	0.0	14	3.2
Total Installation Cost		15.3		1.6	0.8	0.0	0.0		17.7
Total Procurement Cost									

METHOD OF IMPLEMENTATION:

VOYAGE REPAIR TEAM

ADMINISTRATIVE LEAD TIME:

1 MONTH

PRODUCTION LEAD TIME:

18 MONTHS

CONTRACT DATES:

FY-96: N/A

FY-97: N/A

DELIVERY DATE:

FY-96: N/A

FY-97: N/A

INSTALLATION SCHEDULE:

	FY-95/PRIOR	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01	TO COMPLETE	TOTAL
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	
INPUT		1 3 3 3	3 1						14
OUTPUT		1 3 3 3	2 2						14

FOOTNOTES:

UNCLASSIFIED
CLASSIFICATION

BUDGET ITEM JUSTIFICATION SHEET										DATE	March 1996					
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE							METEOROLOGICAL EQUIPMENT		422600	53SP			
OPN BA3 - AVIATION SUPPORT EQUIPMENT			FY 1995		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
QUANTITY																
COST (In millions)			\$20.9		\$19.6		\$17.0		\$19.7		\$25.3		\$24.8		\$25.1	
PROGRAM COVERAGE/JUSTIFICATION FOR BUDGET YEAR REQUIREMENTS:																
<p>This item provides new and replacement meteorological equipment for all Naval/Marine Corps Air Stations and all Navy ships and other activities required to take weather observations and provide safety of flight information. The procurement has been thoroughly coordinated with the other DOD and civilian agencies. Equipment is funded under the following programs:</p> <p>The Mini-Rawin System (MRS) is a portable commercial off-the-shelf upper air sounding system used to measure pressure, temperature, humidity and wind speed and direction from the surface to the lower stratosphere. \$.8 million in FY-96 (60 units) and \$.9 million in FY-97 (68 units) will support upgrade of existing units to enable use of the Global Positioning System (GPS).</p> <p>The Next Generation Radar (NEXRAD) Remote Includes all the hardware and software required for the request, display, local storage and local annotation and distribution of weather/storm data from National Weather Service, Federal Aviation Administration and Air Force weather radars. The Navy is buying remote user processors, not complete radars. \$1.5 million (5 systems) in FY-95 were budgeted for NEXRAD.</p> <p>The Automated Surface Observing System (ASOS) is an automatic system to sense, collect, display and disseminate real time meteorological information at both Navy and Marine Corps Air stations and remote sites such as weapon ranges and port facilities. \$.3.8 million (19 systems) in FY-95 and \$.3.4 million (16 systems) in FY-96 is budgeted for ASOS.</p> <p>The Tactical Environmental Support Systems (TESS) Upgrade - Procure terminals, input/output control devices, CPUs and back planes to replace original equipment for block upgrades and P31. \$2.9 million in FY-95, \$.8.2 million in FY-96 and \$.7.1 million in FY-97 will support the TESS evolutionary acquisition Upgrade. TESS software is required to be upgraded to X-Windows with a C2 Secure Operating System as required for cutover of connectivity to DON/DISNET. Associated hardware upgrades that are required include CPU cards, RAM memory, clock, BUS, disk storage and disk controllers. TESS Upgrades planned for FY95-97 include Fleet Numerical Meteorology and Oceanography Center (FNMOC) and Naval Oceanographic Office (NAVO) and the five regional centers at Guam, Pearl Harbor, Norfolk, Sutiland and Rota Spain, and at afloat and ashore sites.</p>																

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BUDGET ITEM JUSTIFICATION SHEET (CONTINUATION)			DATE	March 1996			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OPN BA3 - AVIATION SUPPORT EQUIPMENT		METEOROLOGICAL EQUIPMENT	53SP				
The Navy Integrated Tactical Environmental Subsystem (NITES) provides tactical environmental support to non-TESS(3) ships and ashore command and control and other facilities as inputs to mission planning systems and tactical decision aids by establishing remote workstations. NITES merges with the TESS Upgrade in FY-96.							
Shipboard Meteorological and Oceanographic Observing System (SMOOS) P31 Sensor Upgrades \$ 2 million in FY-96 and \$ 3 million in FY-97.							
Fleet Marine Force Meteorological Equipment - Meteorological/Sensors Equipment are required to outfit Mobile Facilities (MF) Marine Corps Meteorological Support.							
Miscellaneous Meteorological Equipment - General Purpose Met Equipment covers unscheduled purchase of items such as: laser recorders, facsimile recorders, runway temperature instruments, special tape recorders, power supplies, printed circuit module, etc.							
The Supplemental Weather Radar (SWR) is a state-of-the-art, small, light weight doppler radar system that will be located at sites where NEXRAD coverage is not available to Navy/USMC activities. The SWR will provide real-time surveillance and advance warning of potentially severe weather phenomena that are developing near or moving towards USN and USMC units. \$980K is budgeted in FY-96 and \$2.5 million in FY-97 for SWR.							
Training Support - Necessary to train the initial cadre of instructional personnel with the end item.							
Installation of Equipment - Installation efforts include plans, site surveys, BESEPS, equipment installation and checkout.							
Listed below are the costs (i.e. hardware and installation) for equipment being procured in this line item that have associated installation costs budgeted:							
MODIFICATION SUMMARY (\$M)							
EQUIPMENT	EY95	EY96	EY97	EY98	EY99	EY00	EY01
MRS UPGRADE		1.0	1.0				
ASOS	4.2	3.9	0.3				
TESS UPGRADES	3.6	10.5	9.9	9.6	12.7	9.4	8.4
NITES	9.1						
SMOOS P31		0.2	0.3	2.7	4.5	2.6	2.4
SUPPLEMENTAL WEATHER RADAR		1.0	2.6				
MRS/GPS						2.4	4.2
AN/SMQ-11	0.2			1.6	2.2	5.3	5.5
AN/SMQ-11 UPGRADES							
Total	17.1	16.6	14.1	13.9	19.4	19.7	20.5

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WEAPON SYSTEM COST ANALYSIS									
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE				
OP.N - BA2 COMMUNICATIONS & ELECTRONIC EQUIPMENT					METEOROLOGICAL EQUIPMENT				
					53SP				
TOTAL COST IN THOUSANDS OF DOLLARS									
COST CODE	ELEMENT OF COST	IDENT CODE	FY 95		FY 96		FY 97		TOTAL COST
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	
SP115	MRS UPGRADES	A			60	800	68	925	
SP120	NEXRAD	A	5	1,469					
SP130	ASOS	A	19	3,762	16	3,376			
SP190	TESS UPGRADES	A	VAR	2,933	VAR	8,154	VAR	7,070	
SP195	NITES	A	101	7,106					
SP200	SMOOS P3I				VAR	240	VAR	300	
SP300	MET EQUIPMENT	N/A	VAR	2,299	VAR	2,567	VAR	2,578	
SP400	GP EQUIP	N/A	VAR	152	VAR	189	VAR	132	
SP500	SUPPLEMENTAL WEATHER RADAR	N/A			2	980	7	2,527	
SP666	TRAINING SUPPORT	N/A	VAR	223	VAR	250	VAR	230	
SP776	INSTALL SHORE	N/A	VAR	1,773	VAR	1,916	VAR	1,949	
SP777	INSTALL SHIP	N/A	VAR	1,435	VAR	1,127	VAR	1,337	
TOTAL PROGRAM				21,152	19,599				17,048

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WEAPON SYSTEM PROCUREMENT HISTORY AND PLANNING										A. DATE	March 1996
B. APPROPRIATION/BUDGET ACTIVITY										C. P-1 ITEM NOMENCLATURE	
OPN BA3 - AVIATION SUPPORT EQUIPMENT										METEOROLOGICAL EQUIPMENT	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAILABLE NOW	SPECS REV REQUIRED	IF YES, WHEN AVAILABLE
SP115	MRS UPGRADES FY-96 FY-97	VAISALA, MA VAISALA, MA	SS/FFP SS/FFP/OP	SPAWAR SPAWAR	Mar-96 Oct-96	Jun-96 Jan-97	60 68	\$13,333 \$13,603	Yes Yes	No No	
SP120	NEXRAD FY-95	UNISYS, NY	C/FFP/OP	NATWEASERV	Jan-95	Jan-96	5	\$293,800	Yes	No	
SP130	ASOS FY-95 FY-96	AAI, MD AAI, MD	C/FFP/OP C/FFP/OP	NATWEASERV NATWEASERV	Jan-95 Nov-95	Aug-95 Aug-96	19 16	\$198,000 \$211,000	Yes	No	
SP195	NITES FY-95	VARIOUS	C/CPFF/OP	SPAWAR/ NUSC/NISE WEST	Jan-95	Apr-95	101	\$70,350*	N/A	No	
SP500	WEATHER RADAR FY-96 FY-97	TBD TBD	C/FFP C/FFP/OP	SPAWAR SPAWAR	Mar-96 Oct-96	Jun-96 Dec-96	2 7	\$490,000 \$361,000	No No	No No	
D. REMARKS											
*UNIT PRICE IS BASED ON SITE UNIQUE REQUIREMENTS											

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INSTALLATION SUMMARY (TOA, Dollars in Thousands)

March 19
96

P-1 LINE ITEM NAME: METEOROLOGICAL EQUIPMENT
SUBHEAD: 53SP
P-1 LINE ITEM NUMBER: 146

PROGRAM:

System/Modification	FY-95	FY-96	FY-97	FY-98	FY-99	FY-00	FY-01
MRS UPGRADES		100					
SHIP		100					
SHORE			75				
ASOS	417	496	310				
TESS UPGRADE	282	1,027	1,337	2,177	2,655	1,639	997
SHIP	365	1,300	1,494	568	471	253	678
SHORE							
NITES	1,153						
SHIP	805						
SHORE							
SMOOS P3I				300	550	450	400
SUPPLEMENTAL WEATHER RADAR		20	70				
MRS/GPS						180	305
SHIP							
SHORE							
AN/SMQ-11	186						
SHIP							
SHORE							
AN-SMQ-11 UPGRADES				630	200	1,115	2,240
SHIP					770	857	216
SHORE							
SHIP SUBTOTAL	1,435	1,127	1,337	2,477	3,405	3,384	3,637
SHORE SUBTOTAL	1,773	1,916	1,949	1,198	1,241	1,110	1,199
TOTAL	3,208	3,043	3,286	3,675	4,646	4,494	4,836

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P-3N Exhibit
UNCLASSIFIED

25

March 1996

53SP MINI-RAWIN SYSTEM UPGRADES (SHIP)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM

**DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)**

PY	FY95	FY96	FY97	FY98	FY99	FY00	FY01	LC	Total
City \$	City \$	City \$	City \$	City \$	City \$	City \$	City \$	City \$	City \$
		28 0.4							28 0.4
		28 0.1							28 0.1
		28 0.1							28 0.1
		28 0.5							28 0.5

ADMINISTRATIVE LEADTIME: 3 MONTHS PROCUREMENT LEADTIME: 3 MONTHS

AIT

CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:

INPUT	OUTPUT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
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95	95
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98	98
99	99
100	100

INSTALLATION SCHEDULE:

INPUT	OUTPUT
1	1
2	2
3	3
4	4
5	5
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10	10
11	11
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89	89
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96	96
97	97
98	98
99	99
100	100

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March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP MINI-RAWIN SYSTEM UPGRADES (SHORE)

THE MRS IS A PORTABLE COMMERCIAL OFF-THE-SHELF UPPER AIR SOUNDING SYSTEM USED TO MEASURE PRESSURE, TEMPERATURE, HUMIDITY AND WIND SPEED AND DIRECTION FROM THE SURFACE TO THE LOWER STRATOSPHERE. THE UPGRADES WILL ENABLE USE OF THE GLOBAL POSITIONING SYSTEM.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

ROTA/E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecuring
Equipment Nonrecuring
Engineering Change Orders
Data
Training Equipment
Support Equipment
Other
Interim Contractor Support
Installation of Hardware
PRIOR YR EQUIP
FY 95 EQUIP
FY 96 EQUIP
FY 97 EQUIP
FY 98 EQUIP
FY 99 EQUIP
FY 00 EQUIP
FY 01 EQUIP
FY 02 EQUIP
FY 03 EQUIP
TOTAL INSTALLATION COST
TOTAL PROCUREMENT COST
METHOD OF IMPLEMENTATION:

PY	QTY	FY 95	QTY	FY 96	QTY	FY 97	QTY	FY 98	QTY	FY 99	QTY	FY 00	QTY	FY 01	QTY	IC	QTY	Total
				27	0.4	20	0.3										47	0.7
				27	0.1	20	0.08											
				27	0.1	20	0.08										27	0.1
																	20	0.08
				27	0.1	20	0.08										47	0.18
				27	0.6	20	0.38										47	0.88

CONTRACT DATES:

FY 1995:

FY 1996:

Mar-96

Oct-96

DELIVERY DATES:

FY 1995:

FY 1996:

Jun-96

Jan-97

INSTALLATION SCHEDULE:

INPUT
OUTPUT

INSTALLATION SCHEDULE:

INPUT
OUTPUT

*63 UNITS ARE FOR MOBILE TEAMS AND REQUIRE NO INSTALLATION.

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UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

63SP/SP130 AUTOMATED SURFACE OBSERVING SYSTEM (ASOS) (ASHORE)

ASOS IS AN AUTOMATIC SYSTEM TO SENSE, COLLECT, DISPLAY AND DISSEMINATE REAL TIME METEOROLOGICAL INFORMATION AT BOTH NAVY AND MARINE CORPS AIR STATIONS AND REMOTE SITES SUCH AS WEAPON RANGES AND ORT FACILITIES

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecurring
Equipment
Equipment Nonrecurring
Engineering Change Orders
Data
Training Equipment
Support Equipment
Other
Interim Contractor Support
Installation of Hardware
PRIOR YR EQUIP
FY 95 EQUIP
FY 96 EQUIP
FY 97 EQUIP
FY 98 EQUIP
FY 99 EQUIP
FY 00 EQUIP
FY 01 EQUIP
FY 02 EQUIP
FY 03 EQUIP
TOTAL INSTALLATION COST
TOTAL PROCUREMENT COST
METHOD OF IMPLEMENTATION:

FY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		Total	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
18	3.2		19	3.8		16	3.4												53	10.4
3	0.1		24	0.4		19	0.5		7	0.3									18	0.4
3	0.1		16	0.3		10	0.3												19	0.4
			9	0.1		9	0.2		7	0.3									16	0.5
3	0.1		24	0.4		19	0.5		7	0.3									53	1.3
18	3.3		19	4.2		16	3.9												53	11.7
ADMINISTRATIVE LEADTIME: 1 MONTH																				
PROCUREMENT LEADTIME: 3 MONTHS																				
AIT																				

PROCUREMENT LEADTIME: 8 MONTHS

ADMINISTRATIVE LEADTIME: 1 MONTH

CONTRACT DATES:

FY 1995: Jan-95

FY 1996: Nov-95

FY 1997:

DELIVERY DATES:

FY 1995: Aug-95

FY 1996: Aug-96

FY 1997:

INSTALLATION SCHEDULE:

FY 98
1 2 3 4

INPUT
OUTPUT

7
7

INSTALLATION SCHEDULE:

TOTAL
53
53

FY 01
1 2 3 4

FY 00
1 2 3 4

FY 99
1 2 3 4

FY 98
1 2 3 4

FY 97
1 2 3 4

FY 96
1 2 3 4

FY 95
1 2 3 4

FY 94
1 2 3 4

FY 93
1 2 3 4

FY 92
1 2 3 4

FY 91
1 2 3 4

FY 90
1 2 3 4

FY 89
1 2 3 4

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March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SP190 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS) UPGRADE (SHIP)/NITES (SHIP)

TESS UPGRADE PROCURES TERMINALS, INPUT/OUT CONTROL DEVICES, CPUs AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR
BLOCK UPGRADES. TESS SOFTWARE UPGRADES ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

FY	QTY	FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38
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March 1996

UNCLASSIFIED

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

538P/SP190 TACTICAL ENVIRONMENTAL SUPPORT SYSTEMS (TESS)/NITES (SHORE) 4. TESS UPGRADE PROCURES TERMINALS, INPUT/OUT CONTROL DEVICES, CPU's AND BACK PLANES TO REPLACE ORIGINAL EQUIPMENT FOR BLOCK UPGRADES. TESS SOFTWARE UPGRADES ARE ALSO REQUIRED.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

[illegible]

CONTRACT DATES:

DELIVERY DATES:

INSTALLATION SCHEDULE:

INPUT	OUTPUT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
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100	100

INSTALLATION SCHEDULE:

INPUT	OUTPUT
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98	98
99	99
100	100

* Quantities reflect shore sites.

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UNCLASSIFIED

March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

53SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHIP)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACILITIES
AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RO&E
PROCUREMENT:
Kit Quantity
Installation Kits
Installation Kits Nonrecuring
Equipment
Equipment Nonrecuring
Engineering Change Orders
Data
Training Equipment
Support Equipment
Other
Interim Contractor Support
Installation of Hardware
PRIOR YR EQUIP
FY 95 EQUIP
FY 96 EQUIP
FY 97 EQUIP
FY 98 EQUIP
FY 99 EQUIP
FY 00 EQUIP
FY 01 EQUIP
FY 02 EQUIP
FY 03 EQUIP

FY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		IC		Total	
Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
79	2.5	64	0.9															143	3.4
43	0.4	100	1.2															79	0.8
43	0.4	36	0.4															64	0.8
		64	0.8																
43	0.4	100	1.2															143	1.6
79	2.9	64	2.1															143	5.0
All																			

TOTAL INSTALLATION COST
TOTAL PROCUREMENT COST
METHOD OF IMPLEMENTATION:

CONTRACT DATES:

FY 1995: Jan-95

FY 1996:

FY 1997:

DELIVERY DATES:

FY 1995: Apr-95

FY 1996:

FY 1997:

INSTALLATION SCHEDULE:

PY	FY 95				FY 96				FY 97				FY 98			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

INPUT
OUTPUT

43	23	13	34	30												
43	23	13	34	30												

INSTALLATION SCHEDULE:

FY 99	FY 00				FY 01				TOTAL			
1	2	3	4	1	2	3	4	1	2	3	4	

INPUT
OUTPUT143
143

*Quantities reflect systems not sites

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March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

63SP/SP195 NAVY INTEGRATED TACTICAL ENVIRONMENTAL SUBSYSTEM (NITES) (SHORE)

NITES PROVIDES TACTICAL ENVIRONMENTAL SUPPORT TO NON-TESS(3) SHIPS AND ASHORE COMMAND AND CONTROL AND OTHER FACILITIES AS INPUTS TO MISSION PLANNING SYSTEMS AND TACTICAL DECISION AIDS BY ESTABLISHING REMOTE WORKSTATIONS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E	FY	City	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	IC	Total
PROCUREMENT:											
Kil Quantity											
Installation Kits											
Installation Kits Nonrecurring											
Equipment	24	2.9	37	6.1							61 9
Equipment Nonrecurring											
Engineering Change Orders											
Data											
Training Equipment											
Support Equipment											
Other											
Interim Contractor Support											
Installation of Hardware											
PRIOR YR EQUIP	23	0.3	38	0.82							
FY 95 EQUIP	23	0.3	1	0.02							60 0.32
FY 96 EQUIP			37	0.8							24 0.8
FY 97 EQUIP											
FY 98 EQUIP											
FY 99 EQUIP											
FY 00 EQUIP											
FY 01 EQUIP											
FY TC EQUIP											
TOTAL INSTALLATION COST	23	0.3	38	0.82							84 1.12
TOTAL PROCUREMENT COST	24	3.2	37	6.92							61 10.12
METHOD OF IMPLEMENTATION:	AIT										

PROCUREMENT LEADTIME: 2 MONTHS

ADMINISTRATIVE LEADTIME: 1 MONTH

CONTRACT DATES:

FY 1995: Jan-95

FY 1996:

FY 1997:

DELIVERY DATES:

FY 1995: Apr-95

FY 1996:

FY 1997:

INSTALLATION SCHEDULE:

INPUT
OUTPUT

PY	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04
	1	2	3	4	1	2	3	4	1	2
23	2	16	13	7						
23	2	16	13	7						

INSTALLATION SCHEDULE:

INPUT
OUTPUT

FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	TOTAL
1	2	3	4	1	2	3	4	1	2	61
										61

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March 1996

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

538P SUPPLEMENTAL WEATHER RADAR (SWR) (SHORE)

THE SWR WILL PROVIDE REAL-TIME SURVEILLANCE AND ADVANCE WARNING OF POTENTIALLY SEVERE WEATHER PHENOMENA DEVELOPING NEAR OF MOVING TOWARDS USN AND USMC UNITS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN: (\$ in millions)

RD&E PROCUREMENT: Kit Quantity Installation Kits Installation Kits Nonrecurring Equipment Equipment Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other Interim Contractor Support Installation of Hardware PRIOR YR EQUIP FY 95 EQUIP FY 96 EQUIP FY 97 EQUIP FY 98 EQUIP FY 99 EQUIP FY 00 EQUIP FY 01 EQUIP FY TC EQUIP TOTAL INSTALLATION COST TOTAL PROCUREMENT COST METHOD OF IMPLEMENTATION:	FY		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 19		FY 20		FY 21		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		FY 28		FY 29		FY 30		FY 31		FY 32		FY 33		FY 34		FY 35		FY 36		FY 37		FY 38		FY 39		FY 40		FY 41		FY 42		FY 43		FY 44		FY 45		FY 46		FY 47		FY 48		FY 49		FY 50		FY 51		FY 52		FY 53		FY 54		FY 55		FY 56		FY 57		FY 58		FY 59		FY 60		FY 61		FY 62		FY 63		FY 64		FY 65		FY 66		FY 67		FY 68		FY 69		FY 70		FY 71		FY 72		FY 73		FY 74		FY 75		FY 76		FY 77		FY 78		FY 79		FY 80		FY 81		FY 82		FY 83		FY 84		FY 85		FY 86		FY 87		FY 88		FY 89		FY 90		FY 91		FY 92		FY 93		FY 94		FY 95		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		FY 03		FY 04		FY 05		FY 06		FY 07		FY 08		FY 09		FY 10		FY 11		FY 12		FY 13		FY 14		FY 15		FY 16		FY 17		FY 18		FY 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UNCLASSIFIED

March 1996

63SP/SP050 AN/SMG-11 (SHORE)

MODIFICATION TITLE:
MODELS OF SYSTEMS AFFECTED:
DESCRIPTION/JUSTIFICATION:

THE SMG-11 RECEIVER/RECORDER RECEIVES OTHER DOD AND NATIONAL HIGH RESOLUTION SATELLITE DATA. THE DATA FROM THIS EQUIPMENT IMPROVES AIRCRAFT AND SHIP SAFETY AND IS A FORCE MULTIPLIER FOR WEAPON SYSTEMS.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:

FINANCIAL PLAN: (\$ in millions)

	PY	QTY	EY 95	QTY	EY 96	QTY	EY 97	QTY	EY 98	QTY	EY 99	QTY	EY 00	QTY	EY 01	QTY	IC	QTY	Total
RD&E																			
PROCUREMENT:																			
Kit Quantity																			
Installation Kits																			
Installation Kits Nonrecurring																			
Equipment	4	6.0																4	5.0
Equipment Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Intern Contractor Support																			
Installation of Hardware																			
PRIOR YR EQUIP	1	0.04	3	0.2														4	0.2
FY 95 EQUIP																			
FY 96 EQUIP																			
FY 97 EQUIP																			
FY 98 EQUIP																			
FY 99 EQUIP																			
FY 00 EQUIP																			
FY 01 EQUIP																			
FY 02 EQUIP																			
FY 03 EQUIP																			
TOTAL INSTALLATION COST	1	0.04	3	0.2														4	0.2
TOTAL PROCUREMENT COST	4	5.04	0.2															4	5.2
METHOD OF IMPLEMENTATION:	AIT																		
ADMINISTRATIVE LEADTIME: 3 MONTHS PROCUREMENT LEADTIME: 21 MONTHS																			

CONTRACT DATES:

FY 1995:

FY 1996:

FY 1997:

DELIVERY DATES:

FY 1995:

FY 1996:

FY 1997:

INSTALLATION SCHEDULE:

INPUT
OUTPUT

PY	EY 95	EY 96	EY 97	EY 98	EY 99	EY 00	EY 01	EY 02
1	3	3	3	4	4	4	4	4
1	3	3	3	4	4	4	4	4

INSTALLATION SCHEDULE:

INPUT
OUTPUT

EY 95	EY 96	EY 97	EY 98	EY 99	EY 00	EY 01	TOTAL
1	2	3	4	4	4	4	4
1	2	3	4	4	4	4	4

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NAVMAT 7110.1		OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)		DATE
BUDGET ACTIVITY 3- AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT							SUBHEAD Y3SX
QUANTITY		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
COST (in millions)		0.8	0.7	0.7	0.8	1.0	1.0	1.0	

The Naval Air Systems Command is tasked to fund transition of CV photographic labs from traditional film technology to digital imaging technology, CNO Memo Ser 09B/2U2501983 of 23 Oct 92 applies. The CV main photographic lab supports the full visual imaging program afloat to include: Carrier Intelligence Center (CVIC) support (Bomb Damage Assessment (BDA) and target imagery), incidents and accidents at sea, medical media, copy and reproduction, investigation, aerial and surface surveillance, combat camera, safety, training and Public Affairs Office (PAO).

Electronic/digital imagery acquisition media is rapidly expanding (ATARS, TAMPs, JSIPS). It is imperative the CV photo lab be able to interface with the new electronic media. Hard copy imagery is required in the documentation of real world events (drug interdiction program, humanitarian relief efforts, shipboard and flight operational documentation). This imagery is used at all levels within DoD including CNO SECNAV, JCS, National Military Command Center and the White House. Hard copy photographs are used in the decision making process by the Fleet and Battle Group Commanders and directly impacts the overall Navy mission.

Digital technology will generate less environmentally damaging effluents, and have no impact on shipboard water consumption currently use in traditional photographic processes. Electronic imaging is less manpower intensive and requires less maintenance and overall support resources than traditional mechanical hardware.

In order to fully utilize the film technology employed on CV's, a two phase transition plan will be implemented. An interim photo lab will be installed to interface with existing film technology which will allow the CV to maintain 100% mission capability until final digital installation. Installations of the interim systems have begun in FY 94, to completed in FY 95. LANT AND PAC deployment schedules and pier-side availability determine the installation schedule. Complete digital capability will commence in late FY 95/early FY 96, to be completed in FY 01.

Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipments/software required to tie Phase I and Phase II labs together. Phase I equipments were funded in FY 95 and prior, Phase II will be funded in FY 95 through FY 01.

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APPROPRIATION		WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)						DATE
OTHER PROCUREMENT, NAVY								Mar-96
BUDGET ACTIVITY 3 - AVIATION SUPPORT		P-1 NOMENCLATURE						SUBHEAD
EQUIPMENT - A/C SUPPORT EQUIPMENT		OTHER PHOTOGRAPHIC EQUIPMENT						Y3SX
COST CODE	ELEMENT OF COST	IDENT CODE	(TOTAL COST IN THOUSANDS OF DOLLARS)					
			FY 1995		FY 1996		FY 1997	
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST
SX008	PHOTO EQUIPMENT UNDER \$100K	A		0		137		138
SX019	HIGH CAPACITY DIGITAL COLOR PRINTER	A		0	2	132	2	136
SX020	ELECTRONIC WORKSTATIONS	A		0	4	136	4	140
SX830	PRODUCTION ENGINEERING & LOGISTICS SUPPORT	A		488		49		61
SX900	INSTALLATION (NON-FMP)	A		337		259		262
	TOTAL			805		713		737

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BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										DATE	
APPROPRIATION OTHER PROCUREMENT, NAVY BUDGET ACTIVITY - 3 AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT										Mar-96	
P-1 ITEM NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT										SUBHEAD Y3SX	
COST CODE	ELEMENT OF COST	CONTRACTOR/ LOCATION CITY, STATE	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQ'D?	IF YES, WHEN AVAIL
SX019	HIGH CAPACITY COLOR PRINTER	XEROX, McLean, VA TBD	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun 96 Jun 97	Sep 96 Sep 97	2 2	66,000 68,000	YES YES	NO NO	N/A N/A
SX020	ELECTRONIC WORKSTATION	TBD TBD	C/MIPR/FP C/MIPR/FP	TASA Sacramento Army Depot TASA Sacramento Army Depot	Jun-96 Jun-97	Oct 96 Oct 97	4 4	34,000 35,000	YES YES	NO NO	N/A N/A
REMARKS											

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EXHIBIT P-3N

INDIVIDUAL MODIFICATIONS (P-3A)

MODIFICATION TITLE: Digital Photo Lab (Phase I & II)
 MODELS OF SYSTEMS AFFECTED: CVs, CVNs, CNET, PNCLA
 DESCRIPTION JUSTIFICATION: Tasked to fund transition CV/CVN Photo Lab from traditional film to imagery. CNO memo Ser 09B/2U2501983 of 23 Oct 92 applies. Phase I initiates a transition from "wet" photographic processes to digital imaging process. Phase II enhances the digital capability and replaces, to the maximum extent possible, certain aspects of the "wet" color processes within the limits of current technology. Digital Photo Lab Phase I includes one hard-mounted electronic work station, one portable backup computer, one high capacity digital printer, three digital hand-held cameras, and the software to run these equipments. Digital Photo Lab Phase II adds two more hard-mounted electronic work stations, one more portable backup computer, another high capacity digital printer, a LAN server to tie them together, and some miscellaneous small equipment/software required to tie Phase I and II labs together. Phase I equipment was funded in FY 95 and prior. Phase II will be funded in FY 95 through FY 01.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONE: N/A
 FINANCIAL PLAN: (\$ in Millions)

	FY 95 & PRIOR		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		TO COMPLETION		TOTAL	
	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$	QTY	\$
RDT&E																		
PROCUREMENT																		
Kit Quantity																		
Installation Kits	9	3.5	2	0.4	2	0.4	2	0.5	2	0.7	1	0.8	2	0.6			20	6.9
Installation Kit Nonrecurring																		
Equipment																		
Equipment Charge Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Total Procurement Cost		3.5		0.4		0.4		0.5		0.7		0.8		0.6				6.9
Interim Contractor Support																		
Installation of Hardware																		
FY 94 Egt	0	0															0	
FY 95 Egt (Phase I)	8	0.2															8	0.2
(Phase II)	1	0.1															1	0.1
FY 96 Egt (Phase I)			2	0.3													2	0.3
FY 97 Egt (Phase II)					2	0.3											2	0.3
FY 98 Egt (Phase II)							2	0.3									2	0.3
FY 99 Egt (Phase II)									2	0.3							2	0.3
FY 00 Egt (Phase II)											1	0.1					1	0.1
FY 01 Egt (Phase II)													2	0.3			2	0.3
Total Installation Cost	9	0.3	2	0.3	2	0.3	2	0.3	2	0.3	1	0.1	2	0.3			20	1.9
Total Cost		3.8		0.7		0.7		0.8		1.0		0.9		0.9				8.8

METHOD OF IMPLEMENTATION: Alt Install Team ADMINISTRATIVE LEADTIME: 2 MONTHS PRODUCTION LEADTIME: 1 MONTH

CONTRACT DATES: FY 1996: Jun-96 FY 1997: Jun-97

DELIVERY DATE: FY 1996: Sep-96 FY 1997: Sep-97

INDIVIDUAL MODIFICATIONS (P-3A cont.)

INSTALLATION SCHEDULE	FY 95				FY 96				FY 97				FY 98				FY 99				FY 00				FY 01				TOTAL
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
INPUT																													
FY 1995	3	3	3																										9
FY 1996																													2
FY 1997																													2
FY 1998																													2
FY 1999																													2
FY 2000																													1
FY 2001																													2
TOTAL																													20
OUTPUT																													
FY 1995	3	3	3																										9
FY 1996																													2
FY 1997																													2
FY 1998																													2
FY 1999																													2
FY 2000																													1
FY 2001																													2
TOTAL																													20

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REQUIREMENTS STUDY - NOT-INSTALLED NONCONSUMABLES (P-23B)

REQUIREMENTS STUDY - NOT-INSTALLED NONCONSUMABLES (P-23B)										DATE
										Mar-96
APPROPRIATION OTHER PROCUREMENT, NAVY		BUDGET ACTIVITY - 3 AVIATION SUPPORT EQUIPMENT - A/C SUPPORT EQUIPMENT				P-1 NOMENCLATURE OTHER PHOTOGRAPHIC EQUIPMENT			SUBHEAD Y3SX	
COST CODE NO.	COST CODE TITLE	TOTAL I.O./ REQUIREMENT	QTY ON HAND AND NOT IN USE	QTY IN USE	QTY DUE-IN W/ FY 1995 & PRIOR FUNDS	QTY DUE-IN W/ FY 1996 PROG FUNDS	BUDGET YEAR PROCUREMENT FY 1997	BAL	PHASING RATIONALE	
SX019	HIGH CAPACITY COLOR PRINTER	39	0	14	0	2	2	21	OUTYEAR FUNDING	
SX020	ELECTRONIC WORKSTATION	39	0	14	0	4	4	17	OUTYEAR FUNDING	
							0	0		
							0	0		
MEMO ENTRIES										
ITEM #1: SX019		ITEM #2: SX020		ITEM #3: SX021		ITEM #4: SX032		ITEM #5:		
CV-61	CV-62 CV-63	CV-61 CV-62 CV-63								
CV-64	CV-67 CV-68	CV-64 CV-67 CVN-68								
CV-65	CVN-69 CVN-70	CV-65 CVN-69 CVN-70								
CV-71	CVN-72 CVN-73	CV-71 CVN-72 CVN-73								
CV'S	12 @ 3 36	CV'S 12 @ 3 36								
CNET PNCLA	1 @ 3 3	CNET PNCLA 1 @ 3 3								
TOTAL	39	TOTAL 39					TOTAL			
ITEM #6:	ITEM #7:	ITEM #8:	ITEM #9:	ITEM #10:						

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET							(DOD EXHIBIT P-40)	MARCH 1996	
NAVJAT FORM 7110.1		3 - AVIATION SUPPORT EQUIPMENT						AVIATION LIFE SUPPORT SYSTEMS	
QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001		
COST (in millions)	\$ 12.1	\$ 17.2	\$ 13.8	\$ 16.0	\$ 27.8	\$ 26.5	\$ 29.4		
<p>This account provides for the acquisition, upgrade and production support of aviation life support systems required for the personal safety and protection of aircrew against the hazards encountered in the aircraft operating environment and for safe recovery of downed aircrew.</p> <p><u>PRC-112 AIRCREW SURVIVAL RADIO - SY040</u></p> <p>- Navy (NAVSEA/NAVAIR)/US Army program with Army as procuring service. The AN/PRC-112 radio provides beacon/voice communication and acts as a transponder supplying ranging and identification information. Combined with the Downed Aircrew Locating System, accurately determines an aircrewmans location in range and bearing. AFP granted second quarter FY 1989. Inventory Objective (IO) is 4,000.</p> <p><u>PRC-112 P3I (GPS) - SY045</u></p> <p>- Survival system upgrade to provide rapid, line-of-sight, two-way Global Positioning System (GPS) data communication capability between a survivor using a modified AN/PRC-112 Radio Set (Aircrew Survival Radio). OSD INTEREST PROGRAM. IO is 4,000.</p> <p><u>PRC-112 P3I (GPS) INTERROGATOR - SY046</u></p> <p>- Portable Interrogator Equipment to send, receive and decipher data burst information from the AN/PRC-112 P3I (GPS) Radio. IO is 48.</p> <p><u>CHEMICAL-BIOLOGICAL (CB) PROTECTION UPGRADE FOR HELO AIRCREWS (CB HELO UPGRADE) - SY050</u></p> <p>- CB personal protective equipment provides Head-Eye Respiratory (HER) protection for Marine helo and TACAIR aircrew rapid deployment forces. Support, maintenance and training equipment has been provided. System upgrades are required to correct design deficiencies and replace components due to age life limitations. IO is 3,190.</p>									

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	MARCH 1996
NAVJAT FORM 7110.1 BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		
3 - AVIATION SUPPORT EQUIPMENT	AVIATION LIFE SUPPORT SYSTEMS		
<u>LASER EYE PROTECTION - SY080</u> - Laser Eye Protection which is both day and night capable and compatible with new TACAIR and helicopter helmets to protect against existing and projected laser threat. IO is 7,800.			
<u>CWU - 60/P - SY100</u> - An exposure suit for Carrier On-Board Delivery/Vertical On-Board Delivery(COD/VOD) aircrewman. IO is 4,350.			
<u>HELICOPTER EMERGENCY EGRESS DEVICE P31 (HEED P31) - SY110</u> - An improved and smaller device than the current HEED. Will provide improved performance and compatibility with other aircrew life support and personal protective equipment and increased maintainability and reliability. IO is 5,300.			
<u>AIRCREW INTEGRATED SURVIVAL/ARMOR PROTECTION (AISAP) - SY120</u> - An optimized vest/armor system which integrates life preserver, life capabilities for all combat helicopter aircrews. IO is 3,568.			
<u>PASSENGER AND TROOP SURVIVAL SYSTEM (PATSS) - SY130</u> - A system developed to provide personal flotation that is activated and compatible with other protective, survival and combat equipment. IO is 8,652.			
<u>PASSENGER ANTI-EXPOSURE SURVIVAL SYSTEM (PAESS) - SY140</u> - Provides an easily donned reusable anti-exposure system which will prolong survival time in cold water and increase chances of a successful rescue at sea for passengers. IO is 2,100.			

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OTHER PROCUREMENT, NAVY BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)	DATE
NAVMAT FORM 7110.1 BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE		
3 - AVIATION SUPPORT EQUIPMENT	AVIATION LIFE SUPPORT SYSTEMS		MARCH 1996
<u>EXTREME COLD WEATHER SURVIVAL KITS - SY145</u> - The kit supplements the items in the survival vest and the life rafts in case of mishap over land in extreme cold weather. IO is 147.			
<u>MINI-RAFT BACK PACK - SY150</u> - Constant wear emergency floatation platform for helicopter aircrewman. IO is 5,900.			
<u>REVERSE OSMOSIS DESALINATOR - SY160</u> - Emergency water supply for down aircrewman stowed on board multi-place life rafts. It creates fresh water from salt water. IO is 2,300.			
<u>NAVY COMBAT EDGE - SY170</u> - This is a Congressional interest program. An integrated aircrew flight ensemble which provides significant G protection by an extended coverage lower anti-G garment used with regulated positive pressure breathing balanced by an upper torso counterpressure vest. This system is an adaption to the USAF Combat Edge system to make it compatible with USN/USMC aircraft and aircrews. IO is 1,821.			
<u>AMELIA - SY175</u> - This is a Congressional interest program. An integrated aircrew flight ensemble which provides small and large aviators, including females, with new and/or upgraded systems to ensure safe and effective performance in Naval aircraft. IO is 1,200.			

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										DATE
OTHER PROCUREMENT, NAVY										MARCH 1996
BUDGET ACTIVITY 3										SUBHEAD
AIRCRAFT SUPPORT EQUIPMENT										43SY
P-1 ITEM NOMENCLATURE										
AVIATION LIFE SUPPORT										
COST CODE	ELEMENT OF CODE	IDNT CDE	FY 1995		FY 1996		FY 1997		TTL COST	
			QTY	TTL COST	QTY	TTL COST	QTY	TTL COST		
SY040	PRC-112 Aircrew Survival Radio			0	324	1,796		0		
SY045	PRC-112 P3I (GPS)		500	3,505	1,000	5,000	1,212	2,424		
SY046	PRC-112 P3I (GPS) Interrogator				12	636	15	795		
SY050	CB Helo Upgrade		965	2,766		0		0		
SY080	Laser Eye Protection			0		0	500	500		
SY100	CWU-60/P			0	794	556	2,009	1,004		
SY110	HEED P3I			0	2,650	1,060	2,650	1,060		
SY120	AISAP (Body Armor)		850	1,053	1,000	1,220	1,234	1,491		
SY130	PATSS			0	1,687	506	2,551	638		
SY140	PAESS		450	303	1,000	750	650	553		
SY145	Extreme Cold Weather Survival Kit			0	147	412		0		
SY150	Mini-Raft Backpack			0	400	272	660	363		
SY160	Reverse Osmosis Desalinators		2,300	2,700		0		0		
SY170	Navy Combat Edge			0	300	990	658	2,007		
SY175	AMELIA			0	300	240	300	240		
SY830	Production Support Services			1,761		3,743		2,736		
TOTALS				12,088		17,181		13,811		
NAVMAT FORM 7110/8 (8-76)				P-1 LINE NO.	PAGE NO.	UNCLASSIFIED				
				136	4	CLASSIFICATION				

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APPROPRIATION		BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										DATE	
OTHER PROCUREMENT, NAVY		P-1 ITEM NOMENCLATURE										MARCH 1996	
BUDGET ACTIVITY		AVIATION LIFE SUPPORT SYSTEMS										SUBHEAD NO	
B.A. 3 - AIRCRAFT SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE										43SY	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES, WHEN AVAILABLE		
SY040	AN/PRC-112 Survival Radio FY-1994 FY-1996	Motorola Motorola Scottsdale, AZ	SS SS	US ARMY US ARMY	09/94 06/96	09/95 06/97	134 324	\$4,900 \$5,543	YES	NO	NO		
SY045	PRC-112 P31 (GPS) FY 1995 FY 1996 FY 1997	Motorola, Scottsdale, AZ TBD TBD	SS COMP/FFP FFP/Option	USAF LA AFB NAWC INDY NAWC INDY	08/95 04/96 12/96	07/96 10/96 06/97	500 1000 1,212	\$7,010 \$5,000 \$2,000	YES NO, Mar 96	N/A N/A N/A	N/A N/A N/A		
SY046	PRC-112 P31 (GPS) Interrogator FY 1996 FY 1997	TBD TBD	COMP/FFP FFP/Option	NAWC INDY NAWC INDY	04/96 12/96	10/96 06/97	12 15	\$53,000 \$53,000	NO, Mar 96	N/A N/A	N/A N/A		
SY050	CB HELO Upgrade FY-1995	Meggitt Oxygen Systems Harlow Essex, England	FFP/Option	NAVAIR	05/95	05/96	965	\$2,705	N/A	NO	N/A		
SY080	Laser Eye Protection FY 1997	TBD	COMP/FFP	NICP PHIL.	03/97	09/97	500	\$1,000	NO, Sep 96	NO	N/A		
SY100	CWU-60/P FY-1996 FY-1997	TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	08/96 01/97	04/97 09/97	794 2,009	\$ 700 \$ 500	YES	NO	N/A		
SY110	HEED P31 FY-1996 FY-1997	TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	05/96 01/97	03/97 11/97	2,650 2,650	\$ 400 \$ 400	NO, May 96	NO	N/A		
REMARKS:													
1) Multi-service procurement; additional quantities from other services were involved.													
2) Contract option years, only the firm fixed price unit cost is shown. Provisioned line items and technical data are not included.													

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APPROPRIATION		BUDGET PROCUREMENT HISTORY & PLANNING EXHIBIT (P-5A)										DATE	
OTHER PROCUREMENT, NAVY		P-1 ITEM NOMENCLATURE										MARCH 1996	
BUDGET ACTIVITY		AVIATION LIFE SUPPORT SYSTEMS										SUBHEAD NO.	
B.A. 3 - AIRCRAFT SUPPORT EQUIPMENT		CONTRACT METHOD AND TYPE										43SY	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES WHEN AVAILABLE		
SY120	AISAP (Airmail) FY-1995 FY-1996 FY-1997	GSA TBD TBD	FFP COMP/FFP FFP/Option	GSA DPSC DPSC	07/95 08/96 01/97	10/95 04/97 09/97	850 1,000 1,234	\$1,239 \$1,220 \$1,208	YES	NO	N/A		
SY130	PATSS FY1996 FY1997	TBD TBD	COMP/FFP FFP/Option	NICP PHIL. NICP PHIL.	08/96 02/97	08/97 12/97	1,687 2,551	\$ 300 \$ 250	YES	NO	N/A		
SY140	PAESS FY1995 FY1996 FY1997	ASO TBD TBD	FFP COMP/FFP COMP/FFP	NAWC WAR NICP PHIL. NICP PHIL.	08/95 03/96 02/97	12/95 09/96 02/98	450 1,000 650	\$ 673 \$ 750 \$ 850	YES	NO	N/A		
SY145	Ex. Cold Weather Survival Kit FY-1996	TBD	COMP/FFP	NAWC WAR	08/96	01/97	147	\$2,802	YES	NO	N/A		
SY150	Mini-Raft Backpack FY-1996 FY-1997	TBD TBD	COMP/FFP OPTION	NICP PHIL. NICP PHIL.	08/96 01/97	06/97 10/97	400 660	\$ 680 \$ 550	YES	NO	N/A		
SY160	Reverse Osmosis Desalinator FY-1995	TBD	COMP/FFP	USAF	09/95	11/95	2,300	\$1,174	YES	NO	N/A		
SY170	Navy Combat Edge FY-1996 FY-1997	TBD TBD	COMP/FFP OPTION	USAF/NICP PHIL. USAF/NICP PHIL.	08/96 01/97	07/97 12/97	300 658	\$3,300 \$3,050	NO, May 96	NO	N/A		
SY175	AMELIA FY-1996 FY-1997	TBD TBD	COMP/FFP COMP/FFP	NICP PHIL. NICP PHIL.	08/96 01/97	05/97 10/97	300 300	\$ 800 \$ 800	NO, Apr 96	NO	N/A		

REMARKS:

- 1) First year procurement is a sole source procurement through the GSA catalogue, to satisfy an Urgent HQTs USMC requirement. Follow-on procurements will be competitive.
- 2) FY 95/96 buys are associated with upgrading existing assets for immediate Fleet use.

P-1 ITEM Nomenclature
AVIATION LIFE SUPPORT SYSTEMS

FY 1996/97 BUDGET PRODUCTION SCHEDULE

COST CODE	ITEM/PROG YR	U/M	SERV	PROGRAM QTY	PROG 1 OCT	DUE AS OF 1 OCT	FISCAL YEAR	FISCAL YEAR												CALENDAR YEAR 1997												LATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
								1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019		2020																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
SY040	PRC-112			134		134																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES		REACHED
	min	1-8-5	
PRC-112 Motorola, Scottsdale, AZ	40	100	200
PRC-112 P3(GPS) Motorola, Scottsdale, AZ	40	106	200
PRC-112 P3(GPS) Motorola, Scottsdale, AZ	1	2	20
CB UPGRADE Maggot Oxygen, England	10	150	250
Lease Eye Protection, TBD	25	50	400
CWU-60P TBD	50	331	300
HEED P3: TBD	50	331	400
ASAP TBD	50	100	250

OCT	PROCUREMENT LEAD TIME												TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

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FY 1996/97 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NOMENCLATURE

DATE: _____

[illegible]

MANUFACTURERS NAME & LOCATION	PRODUCTION RATES		REACHED D+
	net total	1-8-5	
PAGES 180	50	280	100
PAGES 180	50	100	225
EXTREME COLD WEATHER KIT 180	5	25	50
MINI-HAT BACKPACK 180	50	100	300
REVERSE COSMOLOGICAL INFLATOR 180	50	200	250
COMBAT EDGE 180	50	75	100

	PROCUREMENT LEAD TIME		MANUFAC - TURNING LEAD TIME	TOTAL AFTER 1 OCT
	PRIOR 1 OCT	AFTER		
PATSS	0	11	10	21
PATSS (+ core)	0	5	10	15
PASS	0	11	4	15
PAESS067	0	6	6	12
PAESS090	0	5	12	17
EXTREME COLD WEATHER KIT	0	11	5	16
PAESS091	0	11	5	21
MILK BAIT BACKPACK (AR01)	0	4	0	4
"J L IN (PAESS011) SA KIT (PAESS012)	0	12	2	14
NAVY COMBAT EDGE	0	11	11	22
NAVY COMBAT EDGE (interior)	0	4	11	15
NAVY COMBAT EDGE (exterior)	0	11	0	20
AMBER (PAESS092) (PAESS093)	0	11	0	20

REMARKS

PAESS: FIRST AND SECOND BUYS ARE TO UPGRADE EXISTING SUITS.
AMELIA: CONSISTS OF MANY ITEMS TO IMPROVE ACCOMMODATION OF WOMEN
CONTINUITY IN PRODUCTION IS NOT POSSIBLE.

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DDO EXHIBIT P-21A

FY 1996/97 BUDGET PRODUCTION SCHEDULE

P-1 ITEM NAME/CLASSIFICATION
AVIATION LIFE SUPPORT SYSTEMS

DATE

MARCH 1996

COST CODE	ITEM/PROD VR	U/M	SERV	PROGRAM QTY	ACCP PRIOR 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR												LATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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SY045	PRC-112 P31 (GPS) FY 1997			1212	404	808	101	101	101	101	101	101	101	101																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

MANUFACTURER'S NAME & LOCATION	PRODUCTION RATES		REACHED D+
	min	max	
PRC-112P31(GPS) Motorola, Scottsdale AZ	40	100	200
PRC-112P31(GPS) Interrogator Motorola	1	5	20
Law Eye Protection TBD	25	200	400
CWU-60P TBD	50	200	350
HEED P3 TBD	50	200	350
ASAP/ARMOR TBD	50	100	250

PROCUREMENT LEAD TIME		MAN/FAC - TURNING LEAD TIME		TOTAL AFTER 1 OCT	
PRIOR 1 OCT	AFTER 1 OCT	PRIOR 1 OCT	AFTER 1 OCT	PRIOR 1 OCT	AFTER 1 OCT

P-1 SHOPP LIST ITEM NO	PAGE NO
136	9

UNCLASSIFIED
CLASSIFICATION

UNCLASSIFIED CLASSIFICATION		P-1 ITEM NONEXCLUSION AVIATION LIFE SUPPORT SYSTEMS		DATE		MARCH 1996																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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MANUFACTURER NAME & LOCATION		PRODUCTION RATES		REACHED	
P-1 SHOP LIST ITEM NO	PAGE NO	136	10	1 OCT	1 OCT
PATSS TBD					
PAESS TBD					
MINI-RAFT BACKPACK TBD					
NAVY COMBAT EDGE TBD					
AMELIA TBD					

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APPROPRIATION		REQUIREMENTS STUDY - NONCONSUMABLES										DATE: MARCH 1996	
OTHER PROCUREMENT, NAVY		P-1 ITEM NOMENCLATURE										SUBHEAD No.	
BUDGET ACTIVITY		AVIATION LIFE SUPPORT SYSTEMS										Phasing Rationale	
B.A. 3 - AVIATION SUPPORT EQUIPMENT												43SY	
COST CODE	COST CODE TITLE	TOTAL LOI/ REQUIREMENT	Quantity on hand and not in use	Quantity in use	Quantity Due in w/ FY95 & Prior Funds	Current Year FY 96 Procurement	Planned Budget FY 97 Procurement	Balance					
SY040	PRC-112 Survival Radios	4,000	0	3,542	134	324	0	0	Funding Constraints				
SY045	PRC-112 P31 (GPS)	4,000	0	0	500	1,000	1,212	1,288	Funding Constraints/Ready for Production				
SY046	PRC-112 P31 (GPS) INTERROGATOR	48	0	0	0	12	15	21	Funding Constraints				
SY050	CB Helo Upgrade	3,190	0	3,190	3,190	0	0	0	Shelf Life/Funding Constraints				
SY060	COMBAT SURVIVOR EVADER LOCATOR (CSE)	9,000	0	0	0	0	0	9,000	Funding Constraints/Ready for Production				
SY080	LASER EYE PROTECTION	7,800	0	0	0	0	500	7,300	Funding Constraints/Ready for Production				
SY100	CWU-60/P	4,350	0	0	0	794	2,009	1,547	Funding Constraints/Ready for Production				
SY110	HEED P31	5,300	0	0	0	2,650	2,650	0	Funding Constraints/Ready for Production				
SY120	AISAP (ARMOR)	3,568	0	0	850	1,000	1,234	484	Funding Constraints/Ready for Production				
SY130	PATSS	8,652	0	0	0	1,687	2,551	4,414	Funding Constraints/Ready for Production				
SY140	PAESS	2,100	0	0	450	1,000	650	0	Funding Constraints/Ready for Production				
SY145	EX. COLD WEATHER SURVIVAL KIT	147	0	0	0	147	0	0	Funding Constraints/Ready for Production				
SY150	MINI-RAFT BACKPACK	5,900	0	0	0	400	660	4,840	Funding Constraints/Ready for Production				
SY160	REVERSE OSMOSIS DESALINATOR	2,300	0	0	2,300	0	0	0	Funding Constraints/Ready for Production				
SY170	NAVY COMBAT EDGE	1,821	0	0	0	300	658	863	Funding Constraints/Ready for Production				
SY175	AMELIA	1,200	0	0	0	300	300	600	Funding Constraints/Ready for Production				
MEMO ENTRIES													
CODE No. SY040 - PRC - 112 Survival Radio	4,000	CODE No. SY045 - PRC - 112 P31 Radio	4,000	CODE No. SY046 - PRC - 112 P31 (GPS) INTERROGATOR	48	CODE No. SY050 - CB HELO Upgrade	3,190	CODE No. SY060 - CSEL					
Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron					
CODE No. SY080 - Laser Eye Protection	7,800	CODE No. SY110 - HEED P31	5,300	CODE No. SY120 - AISAP (ARMOR)	3,568	CODE No. SY130 - PATSS	8,652	CODE No. SY140 - PAESS					
Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron					
CODE No. SY100 - CWU - 60/P	4,350	CODE No. SY145 - Extreme Cold Weather Survival Kit	147	CODE No. SY150 - MINI - RAFT BACKPACK	5,900	CODE NO SY 160 - Reverse Osmosis Desalinator	2,300	CODE No. SY170 - Navy Combat Edge					
Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron		Tycoms/Squadron					
CODE No. SY175 - AMELIA	1,200												
Tycoms/Squadron													
				P-1 SHOPP. LIST ITEM NO. 136				PAGE NO. 11					
				DD FORM 2445, JUL 87				UNCLASSIFIED CLASSIFICATION					

DD FORM 2445, JUL 87

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ITEM NO. 136

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BUDGET ITEM JUSTIFICATION SHEET						DATE:	March 1996
P-40							
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT, NAVY/		AIRBORNE MINE COUNTERMEASURES 7350					
BA-3: NAVY/AVIATION SUPPORT EQUIPMENT							
	1995	1996	1997	1998	1999	2000	2001
QUANTITY							
COST							
(In Millions)	\$0.3	\$18.9	\$13.5	\$12.2	\$44.1	\$54.7	\$65.1

ITEM DESCRIPTION/JUSTIFICATION:

Airborne Mine Countermeasures (AMCM) Equipment is used by MH-53E helicopters to counter the threat of sea mines. The equipment is divided into two broad categories, minesweeping and minehunting; (1) minesweeping is performed by mechanical or influence sweeps. In mechanical sweeping, the mine mooring is severed by the sweep gear allowing the mine to float to the surface where it is destroyed. In influence sweeping, a magnetic or acoustic field which simulates the magnetic/acoustic signature of a ship is introduced into the water. This field causes the mine mechanism to actuate. (2) In mine hunting the object is to actually locate and classify, mark, or neutralize the mine, usually by means of high resolution sonar. AMCM squadrons currently have capability in mechanical, magnetic, and acoustic sweeping, mine surveillance and marking. Its mission is to locate, classify and neutralize moored and bottom mines.

S0061 - The MK-105 magnetic minesweeping system is a hydrofoil platform that carries a turbo-generator power pack and is towed by a MH-53E helicopter, allowing for safe, high speed sweeping of course magnetic influence mines at twice the output of the current MK-105. Technological upgrade increases supportability, reliability and maintainability (R&M), and increases operational effectiveness. ECPs are analyzed, prioritized and screened to accommodate replacement of subsystems/components because of obsolescence.

S0060 - The funds provided are for the procurement of the A/N37U-1 Mechanical Minesweeping Systems.

S0020 - The funds provided are for the modification of systems to accommodate replacement of subsystems/components because of obsolescence. ECPs are analyzed, prioritized and screened to accommodate replacement of subsystems/components.

S0062 - The funds provided are for the procurement of the Multi-mission Craft Air Cushion (MCAC).

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ITEM NO.137 PAGE NO. 1

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CLASSIFICATION:

WEAPON SYSTEM COST ANALYSIS EXHIBIT		DATE:					
P-5		March 1996					
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT, NAVY/		P-1 ITEM NOMENCLATURE/SUBHEAD					
BA-3: NAVY AVIATION SUPPORT EQUIPMENT		AIRBORNE MINE COUNTERMEASURES 73S0					
TOTAL COST IN THOUSANDS OF DOLLARS							
COST CODE	ELEMENT OF COST	FY 1995		FY 1996		FY 1997	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
	MINE WARFARE, N852						
S0020	MODIFICATION		293		754		645
S0060	A/N37U-1 MECH MINESWEEPING		0	6	3,447	9	4,520
S0061	MK-105 UPGRADE		0	3	14,725		4,600
S0062	MCAC		0		0	1	3,700
	TOTAL		293		18,926		13,465

DD FORM 2446, JUN 86

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CLASSIFICATION:

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT										DATE	
P-5A										March 1996	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				SUBHEAD					
OTHER PROCUREMENT, NAVY		AIRBORNE MINE COUNTERMEASURES				73SO					
BA-3: NAVY/AVIATION SUPPORT EQUIPMENT											
COST CODE	LINE ITEM/ FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT* COST (000)	SPECS AVAILABLE NOW	SPEC REV REQ'D	IF YES WHEN AVAILABLE
S0060	A/N37U-1 MECH MINESWEEPING										
	FY 1996	GSS GROTON, CT	C/FFP	NAVSEA	02/96	02/97	6	574	YES	NO	
	FY 1997	GSS GROTON, CT	OPTION	NAVSEA	11/96	11/97	9	502	YES	NO	
S0061	MK-105 UPGRADE FY 1996	EDO CORP COLLEGE POINT, NY	SS/FFP	NAVSEA	12/95	02/98	1	4,908	NO	NO	
		EDO CORP	SS/FFP	NAVSEA	05/96	07/98	2	4,908	NO	NO	
	FY 1997	EDO CORP	OPTION	NAVSEA	04/97						
S0062	MCAC FY 1997	TBD	C/FFP	NAVSEA	02/97	02/98	1	3,700	YES	NO	
REMARKS											
S0061 - MK-105 UPGRADE KITS - THE FUNDING FOR FY 1997 WILL BE USED TO PROCURE SUPPORT EQUIPMENT, PUBLICATIONS, AND FACTORY TRAINING FOR THE UPGRADED MK-105 SYSTEMS.											

[illegible]

ITEM NO. 137 PAGE NO. 4

A - CONTRACT AWARD

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MODIFICATION INSTALLATION SUMMARY (EXHIBIT P-3N) (TOA, Dollars in Millions)										DATE March 1996
APPROPRIATION/BUDGET ACTIVITY										P-1 ITEM NOMENCLATURE AIRBORNE MINE COUNTERMEASURES (73S0)
System/Modification	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	TOTAL	
MODIFICATION	1107.0	293.0	754.0	645.0	816.0	2895.0	1634.0	902.0	9146.0	
A/N37U-1 MECH MINESWEEPING	5994.0	0.0	3447.0	4520.0	0.0	0.0	0.0	0.0	13961.0	
MK-105 UPGRADE	0.0	0.0	14725.0	4600.0	9275.0	18000.0	18000.0	25000.0	89600.0	
MCAC	0.0	0.0	0.0	3700.0	0.0	0.0	0.0	0.0	3700.0	
MAGNETIC CABLE	0.0	0.0	0.0	0.0	2090.0	711.0	0.0	0.0	2801.0	
AN/AQS-20	0.0	0.0	0.0	0.0	0.0	22411.0	24300.0	31600.0	78311.0	
ALMDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
AMNSYS	0.0	0.0	0.0	0.0	0.0	0.0	10789.0	7611.0	18400.0	
TOTAL	7101.0	293.0	18926.0	13465.0	12181.0	44117.0	54723.0	65113.0	215919.0	

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ITEM NO. 137

PAGE NO. 7

CLASSIFICATION:

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UNCLASSIFIED		OTHER PROCUREMENT NAVY										Mar-96
P40 EXHIBIT		BUDGET ITEM JUSTIFICATION SHEET										
AVIATION SUPPORT EQUIPMENT - OTHER SUPPORT EQUIPMENT		LAMPS MK III SHIPBOARD EQUIPMENT U3S1										
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001					
QUANTITY	4	0	0	0	0	0	0					
COST IN MILLIONS		6.1	16.2	15.3	25.0	0	2.6	0				

The LAMPS MK III Ship/Air Weapon System is a computer integrated ship/helicopter system that increases the effectiveness of surface combatants.

The Weapon System is a multi-appropriation funded program. The OPN-3 program funds the LAMPS MK III shipboard equipment that is to be installed in existing ships being backfitted with the LAMPS MK III Weapon System. Procured under this line are:

- (1) AN/SRQ-4, a shipboard terminal data transmission device,
- (2) HLS (Helicopter Landing System), including Recovery, Assist, Securing, and Traversing (RAST) System; the Horizon Reference Set (HRS); and the flight Deck Status & Signaling System (FDSSS), and
- (3) Acoustic Processor DDG-993, a Sonar Signal Processing System (SSPS).

The AN/SRQ-4 is an electronic device which receives electronic surveillance measures, radar video and acoustic data and transmits secure voice, shipboard computer and air navigation data. HLS is used in the launching and retrieving of LAMPS MK III helicopters from LAMPS ships. The Acoustic Processor accepts acoustic data and selects, records, reproduces, processes, and displays the data as controlled by the Acoustic Sensor Operator (ASO).

The FY 1995 budget request provides for the procurement of four (4) Acoustic Processor systems, System Integration, Logistics, Production Engineering Support and advanced planning associated with installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995.

FY 1996 and FY 1997 supports Systems Integration, ILS, Production Engineering and installation of the LAMPS MK III Upgrade aboard ship hulls DDG-993 and DDG-995.

WEAPONS SYSTEM COST ANALYSIS EXHIBIT (P-5) WEAPON SYSTEM COST ELEMENTS	A. OTHER PROCUREMENT, NAVY BUDGET ACTIVITY -3 AVIATION SUPPORT EQUIPMENT - AIRCRAFT SUPPORT EQUIP				B. LAMPS MK III SHIPBOARD EQUIPMENT		C. N/A	D. DATE: Mar-96
	IDENT CODE	FY 1995 QTY	FY 1995 TOTAL COST	FY 1996 QTY	FY 1996 TOTAL COST	FY 1997 QTY	FY 1997 TOTAL COST	
SYSTEM INTEGRATION			700		782		0	
ACOUSTIC PROCESSOR		4	1100		0		0	
ILS			100		100		0	
PRODUCTION ENGINEERING/QA/TE			517		300		0	
INSTALLATION OF EQUIPMENT (FMP)			3660		15026		15282	
TOTAL		4	6,077		16,208		15,282	

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P-1 LINE 138
LAMPS MK III SHIPBOARD EQUIPMENT

MODIFICATION INSTALLATION SUMMARY

(TOA, Dollars in Millions)

	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	TOTAL
LAMPS MK III UPGRADE SHIPALT (334)	3.7	15.0	15.3	24.8	0.0	0.0	0.0	58.8

P-1 LINE 13B
LAMPS MK III SHIPBOARD EQUIPMENT

MODIFICATION TITLE:
LAMPS MK III UPGRADE
DDG-983 CLASS SHIPS

DESCRIPTION/JUSTIFICATION:
The LAMPS MK III UPGRADE SHIPALIT 334, installs and integrates the LAMPS MK III weapons system on DDG-983, DDG-994, DDG-995 and DDG-996. The LAMPS MK III system is a computer integrated ship-helicopter weapons system that greatly increases the effectiveness of surface combatants, and consist of the Acoustic Processor unique LAMPS MK III data link (AN/SRQ-4) and the Helicopter Landing System. The AN/SRQ-4 and the Helicopter Landing System (HLS) were procured with prior year funds; the Acoustic Processors are being procured in FY 1995.

DEVELOPMENT STATUS/MAJOR DEVELOPMENT MILESTONES:
FINANCIAL PLAN (\$ in Millions):

	FY 94 & Prior	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	TO COMP	TOTAL
	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty
BOTTLE								
PROCUREMENT								
Kits Quantity								
Installation Kits								
Installation Kit Nonrecurring								
Equipment								
Equipment Nonrecurring								
Engineering Change Orders								
Installation								
Training Equipment								
Support Equipment								
Other								
Interim Contractor Support								
Total Procurement Cost	3.8	4	1.0**				4	4.8
Installation of Hardware								
FY 94 & Prior								
FY 95 (4 KITS)		AP	1	1	2	2		62.4
Total Installation Cost	0	0	1	1	2	2		62.4
Total Procurement Cost	3.8	4	4.7	1	2	2		67.2
METHOD OF IMPLEMENTATION:	N/A							
CONTRACTS DATES:	FY 94: N/A	FY 95: 3/95						
DELIVERY DATE:	FY 94: N/A	FY 95: 10/95						
INSTALLATION SCHEDULE: /1	1	2	3	4	1	2	3	4
INPUT: FY 94 & PRIOR								
INPUT: FY 94 & PRIOR								
INPUT: FY 95								

Show Install Schedule Through the FYDP

AP= ADVANCE PLANNING

In addition, AN/SRQ-4 (4 units) and HLS (4 units) hardware were procured with prior years funds and are to be installed concurrently with the Acoustic Processor budgeted in FY 1995.

Installation costs are priced as a complete ship alteration, costs for the installation of individual equipment is not available.

1/ Reflect input/output of LAMPS MK III Upgrade Systems.

**The FY 95 procurement of (4) Acoustic Processor is an economical buy.

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EXHIBIT P-3a Individual Modification

7 MONTHS

PROCUREMENT HISTORY & PLANNING										A DATE: Mar-96	
EXHIBIT P-5A											
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
AVIATION SUPPORT ACTIVITY-OTHER SUPPORT EQUIP				LAMPS MK III SHIPBOARD EQUIPMENT							
LINE ITEM	FISCAL YEAR	AND LOCATION & TYPE	METHOD & TYPE	CONTRACT BY	AWARD DATE	FIRST DELIVERY	QUANTITY	UNIT COST	AVAILABLE NOW	REV REQ'D	WHEN AVAILABLE
S1009		NAVSEA	S/FFP	NAVSEA	3/95	10/95	4	275	YES	NO	
ACOUSTIC PROC											
DDG-993											
FY 95											
REMARKS:											
UNCLASSIFIED											

[illegible]

[illegible]

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OTHER PROCUREMENT, NAVY										(DOD EXHIBIT P-40)		DATE				
BUDGET ITEM JUSTIFICATION SHEET												Mar 1996				
NAVMAT 7110.1																
BUDGET ACTIVITY 3 - AVIATION SUPPORT										P-1 ITEM NOMENCLATURE		SUBHEAD NO.				
EQUIPMENT - A/C SUPPORT EQUIPMENT										REWSON PHOTOGRAPHIC EQUIPMENT		Y3S4				
										FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY																
COST (in millions)										0.6	0.6	0.9	0.9	1.4	1.8	1.8

This line procures photographic film processing, printing, and film interpretation equipment for the exclusive support of the on-going intelligence mission of CV/CVNs. Specifically, this equipment primarily supports the mission of the F-14 borne Tactical Airborne Reconnaissance Pod System (TARPS) as well as related Carrier Intelligence Center (CVIC) photographic requirements, and the hand held intelligence photography collected by the embarked Airwing (nine squadrons) and deployed Carrier Battle Group (CVBG). The CVBG normally consists of the CV/CVN and its support ships.

Also, this equipment supports the photographic intelligence that is disseminated from internal and National sources to the Airwing (CVW) and CVBG. TARPS imagery is often provided to in-theater NATO forces as well. TARPS remains the only tactical aerial photographic reconnaissance asset in theater and is directly controlled by the Theater Commander.

The FY95-97 funds are continuing to procure the needed inventory objective of subject equipments. They are also providing new equipments for scanning and digital dissemination of TARPS film imagery.

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APPROPRIATION		PROGRAM COST BREAKDOWN		(DOD EXHIBIT P-5)		DATE
OTHER PROCUREMENT, NAVY		WEAPON SYSTEM COST ANALYSIS				Mar-96
BUDGET ACTIVITY 3 - AVIATION SUPPORT		P-1 NOMENCLATURE				SUBHEAD
EQUIPMENT - A/C SUPPORT EQUIPMENT		REWSON PHOTOGRAPHIC EQUIPMENT				Y3S4
		(TOTAL COST IN THOUSANDS OF DOLLARS)				
COST CODE	ELEMENT OF COST	IDENT CODE	FY 1995		FY 1996	
			QTY	TTL COST	QTY	TTL COST
S4019	MISC SMALL EQUIPMENT & ECPS	A		453		224
S4830	PRODUCTION ENGINEERING	A		100		371
	TOTAL			553		595
						933

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NAVJAG FORM 7110.1		OTHER PROCUREMENT, NAVY		BUDGET ITEM JUSTIFICATION SHEET		(DOD EXHIBIT P-40)		DATE	
BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		STOCK SURVEILLANCE EQUIPMENT		43S2		March 1996	
AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQ.		FY 1995		FY 1996		FY 1997		FY 1998	
QUANTITY		FY 1995		FY 1996		FY 1997		FY 1998	
COST (in millions)		1.4		1.5		1.6		1.9	
<p>PROGRAM DESCRIPTION/JUSTIFICATION/EXECUTION. The NAVAIRSYSCOM (AIR-3.1.1) Stock Surveillance Equipment (SRV) Program furnishes varied specialized and ancillary test equipment/systems for both air-to-air and air-to-ground missiles, ordnance, ammunition and their related components. The SRV Program directly supports the System Effectiveness Engineering (SEE) Program. This helps to provide accurate indicators for Fleet Readiness in regard to safety, serviceability, reliability, availability, quality and mission effectiveness. The following SEE activities participate in the SRV Program: NAVSUFWARCEN Crane Div., WPNSTA YORKTOWN, AND NAVSUFWARCEN Indian Head Div.</p> <p>WPNSTA Yorktown is responsible for procurement of missile electronic component test equipment and Airborne Weapon Analysis Reporting System (AWARS) equipment. NAVSUFWARCENs Crane Div and Indian Head Div are responsible for procurement of missile and ordnance energetic test equipment.</p> <p>AIR LAUNCHED GUIDED MISSILES - All-Up-Round (AUR) missiles presently supported are: PHOENIX, SIDEWINDER, SPARROW, AMRAAM, HARPOON, HARM, HELLFIRE, MAVERICK, SIDEARM, PAVEWAY III, WALLEYE, and their related equipment.</p> <p>AIRBORNE ORDNANCE/AMMUNITION/SPECIAL STORES - Weapons/Stores presently supported are: Aircrew escape propulsion systems, cartridges, explosive ordnance system devices, cartridge actuated devices, common aircrew ejection set, gun ammunition/fuzing systems, pyrotechnics, aircraft rockets, general purpose bombs, cluster weapons, and their related components.</p>									

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APPROPRIATION OTHER PROCUREMENT, NAVY		WEAPON COST ANALYSIS (P-5)				DATE March 1996		
BUDGET ACTIVITY 3 AVIATION SUPPORT EQUIPMENT/AIRCRAFT SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE STOCK SURVEILLANCE EQUIPMENT				SUBHEAD NO. 43S2		
COST CODE	ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)					
			FY 1995		FY 1996		FY 1997	
			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
S2005	Air - Launched Guided Missiles Air - to - Air PHOENIX SIDEWINDER SPARROW AMRAAM Air - to - Ground HARPOON HARM HELLFIRE MAVERICK PAVEWAY III SIDEARM WALLEYE Multi - System Purpose ALL A/L Guided Missiles Subtotal (S2005) Air - Launched Ordnance GRAND TOTAL							
				\$		\$		\$
				70		0		0
				45		65		50
				32		40		25
				84		104		60
				60		60		60
				120		90		50
				65		55		15
				0		20		0
				0		75		0
				20		15		0
				37		15		0
				385		157		703
				918		696		963
				465		778		627
				1383		1474		1590
S2006								
NAVJMAT FORM 7110/8 (8-76)			P-1 SHOPP. LIST ITEM NO. 140	PAGE NO. 2				

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BUDGET PI BUDGET PROCUREMENT HISTORY & PLANNING (EXHIBIT P-5A)										DATE
APPROPRIATION/BUDGET ACTIVITY 3										March 1996
OTHER PROCUREMENT, NAVY/AVIATION SUPPORT EQUIPMENT										SUBHEAD NO.
P-1 ITEM NOMENCLATURE										43S2
STOCK SURVEILLANCE EQUIPMENT										
LINE ITEM/FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	ARE SPEC REVISIONS REQUIRED?	IF YES WHEN AVAILABLE
FISCAL YR. 1995 PROG.										
S2005										
ENERGY DISPERSIVE X-RAY EMFTS	TBD DRI	C/FP	INDIAN HEAD CRANE	AUG 95 JUL 95	AUG 96 MAR 96	1	189.00	YES	N/A	
HANDLING SYSTEM	TBD	C/FP	CRANE	AUG 95	JUN 96	1	208.00	YES	N/A	
S2006										
REMOTE MONITOR SETERA, MODEL 80	PW SETERAM	C/FP	CRANE	JUN 95 APR 95	JUN 96 MAR 96	1	144.00	YES	N/A	
		C/FP	CRANE			1	159.00	YES	N/A	
FISCAL YR. 1996 PROG.										
S2006										
PYROTECHNIC/PROPELLENT TEST CONTAINMENT CHAMBER	COMARCO Bloomfield, IN	C/FP	CRANE	JUN 96	MAY 97	1	450.00	NO 6/96	N/A	
FISCAL YR. 1997 PROG.										
S2005/S2006										
HIGH SPEED STURRY CUTTER	TBD	C/FP	CRANE	JUN 97	JUN 98	1	(*) 375.00	NO 5/97	N/A	
REMARKS:										
EQUIPMENT OVER \$100.0K										
(*) THE HIGH SPEED STURRY CUTTER WILL BE CAPABLE OF "CUTTING" BOTH MISSILE AND ORDNANCE EXPLOSIVES AND PROPELLANTS. \$75K (FOR DESIGN AND FABRICATION OF THE HOLDING FIXTURE) WILL BE FUNDED UNDER S2005 (MISSILES) AND THE OTHER \$300K (FOR HARDWARE) UNDER S2006 (ORDNANCE).										

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BUDGET ITEM JUSTIFICATION SHEET

BUDGET ITEM JUSTIFICATION SHEET					(DOD EXHIBIT P-40)		DATE		
APPROPRIATION / BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE			SUBHEADS	
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3					OTHER AVIATION SUPPORT EQUIPMENT			43S7	
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT								U3S7/Y3S7	
FISCAL YEARS			FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY									
COST (in millions)			15.0	12.2	7.9	2.1	2.1	2.1	0.2

The following items are funded in this line:

1. Tactical Aircraft Mission Planning Systems (TAMPS) - FY 1995/96 only
2. Industrial Facilities Equipment
3. Capital Automated Data Processing Equipment (ADPE)
4. NAVAIR Support Equipment - FY 1995 only

1. Tactical Aircraft Mission Planning Systems (TAMPS)

* In FY 1997 and beyond TAMPS is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPS). Detailed justification for the TAMPS program is provided in the OPN BA2 backup book.

2. Industrial Facilities Equipment

This item supports funding of capital costs associated with the Navy's government-owned but contractor-operated Deep Water Test Facility at San Clemente Island.

3. Capital ADPE

Procurements supporting the NAVAIR organization (NALDA & I/ETMS), which were formerly budgeted and managed under the Computer Acquisition Program (CAP) in FY 95 and prior is now directly controlled by NAVAIR, effective FY 1996. Details regarding these NAVAIR Capital ADPE projects are provided below:

BUDGET ITEM JUSTIFICATION SHEET

(DOD EXHIBIT P-40)

DATE

March 1996

APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						SUBHEADS
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3		OTHER AVIATION SUPPORT EQUIPMENT						43S7
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT								U3S7/Y3S7
FISCAL YEARS		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY								
COST (in millions)		15.0	12.2	7.9	2.1	2.1	2.1	0.2

a. Naval Aviation Logistics Data Analysis (NALDA):

NAVAIR was directed by CNO to extend NALDA access to additional USN and USMC activities, principally the Fleet and to all NAVAIR Team sites. Sufficient automated data processing equipment (ADPE) and accessibility to the NALDA data base is presently not available at most Navy and Marine Corps Fleet level maintenance and repair facilities. The ADPE is necessary to eliminate the current on-going degradation of their capability to make informed decisions affecting material readiness, safety, and resource allocations.

NALDA is an upline integrated logistics support (ILS) data system designed to accommodate upline logistics data reporting requirements and to perform critical mission support analyses. NALDA provides the following capabilities: (1) a cost-effective corporate, integrated aviation maintenance/logistics data bank; (2) standardized procedures for data access and data analysis techniques; (3) aviation hardware/software/firmware configuration management tracking capabilities; (4) consolidation of redundant autonomous systems into a single system; (5) standardized, aviation-wide MIS support; (6) a Logistics Support Analysis Record (LSAR) data system mandated by OSD MIL-STD 1388-2B; (7) an accurate configuration management and serial number tracking data system implemented using the CLIP-CIM software for aviation weapons systems - the fleet's number one priority to improve readiness and safety of flight; (8) more timely (daily) receipt of fleet AV-3M and configuration data; (9) ability to access centralized fleet-wide, near real-time, operational/readiness data from NALDA in accordance with DoD security regulations; and (10) Logistics Management Decision Support System (LMDSS). Information available from the NALDA data bank consists of aviation maintenance, engineering, operational readiness, safety, configuration management, parts life tracking, and other critical logistics data for all naval aircraft, engines, components, and other weapons equipment.

Data reporting requirements for the NALDA system are directed by OPNAV and NAVAIR as defined primarily by the Naval Aviation Maintenance Program (NAMAP) manual. Users of the NALDA system are located at all NAVAIR headquarters, field activities, fleet TYCOMS, Functional Wings, Intermediate Maintenance Activities, and other aviation logistics activities.

BUDGET ITEM JUSTIFICATION SHEET							(DOD EXHIBIT P-40)	DATE	March 1996
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					SUBHEADS		
OTHER PROCUREMENT, NAVY / BUDGET ACTIVITY 3		OTHER AVIATION SUPPORT EQUIPMENT					43S7		
AVIATION SUPPORT EQUIPMENT / AIRCRAFT SUPPORT EQUIPMENT							U3S7/Y3S7		
FISCAL YEARS		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY									
COST (in millions)		15.0	12.2	7.9	2.1	2.1	2.1	0.2	
<p>b. Interactive/Electronic Technical Manual System (I/ETMS)</p> <p>I/ETMS is a strategy which supports the Automated Library Technical Manual System (ALTMS) and Automated Technical Information System (ATIS), NAVVAIR application ATIS (AIR) programs. The objective of the I/ETMS strategy is to provide the capability to receive and use digital technical information in the support of developing and fielding Naval Aviation Weapon Systems and Equipment. I/ETMS is the result of a DoD/DoN CALS implementation requirement to eliminate paper technical manuals and provide electronic technical manuals to the aviation maintenance community. The I/ETMS configuration consists of the hardware, software, and network interfaces to support fleet maintenance activity capability to receive, store, and use electronically presented maintenance technical information.</p> <p>ATIS (AIR) is designed to develop and implement at intermediate level maintenance activities an automated system for the distribution, delivery, and display of digital technical data, which will augment the capability provided by ALTMS. ATIS (AIR) is intended to satisfy requirements for value-added digital delivery, improved maintenance and supply functionality, and provide interfaces to existing fleet information systems (ISs). (Note: Implementation of three (3) sites will commence in FY 1995 and will be completed in FY 1996.)</p>									
<p>4. NAVVAIR Support Equipment</p> <p>Includes investment equipment used in the operation of NAVVAIR Headquarters, and NAVVAIR Field Activities such as the Naval Air Warfare Center, Training Systems Division, Orlando, FL, the Pacific Missile Range Facilities (PMRF), Hawaii, and the Naval Air Technical Services Facility (NATSF), Philadelphia. Support equipment is also provided for the Naval Air Warfare Center, Weapon Division, Point Mugu, CA and the Naval Air Warfare Center, Aircraft Division, Patuxent River, MD. This equipment is evaluated on a cost-effective (lease vs. purchase) basis. All non-centrally managed OIS equipment is funded in this line item. Beginning in FY 1989 the procurement of the NAVVAIR Headquarters (NHN) system was included in the OIS-Headquarters line. NHN provides an integrated data communications network that extends the capabilities of the Naval Air Systems Command, its Program Executive Offices, and Naval Air Warfare Center Headquarters to support management of aviation design, development, engineering, logistics support, contract and budgetary data. The last year of funding for the stand-up of the NHN was FY 1995. Also, FY 1995 provides for the Joint Acquisition Management System (JAMS) II, which provides tools to efficiently oversee management of today's defense systems acquisition by generating consistent, quality procurement packages in a reduced amount of time. Effective in FY 1996, these non-centrally managed procurements will be budgeted and executed in the Operations & Maintenance, Navy appropriation.</p>									

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)				A. Appropriation/Budget Activity OPN / BA 3 - AVIATION SPT EQUIP NAVAIR/PEO(A)/PEO(T)/PEO(CU)		B. Weapon Model/Series VARIOUS		C. Manufacturer Name VARIOUS		D. Date March 1996	
OTHER AVIATION SUPPORT EQUIPMENT				FY 1995		FY 1996		FY 1997			
WEAPON SYSTEM COST ELEMENTS				IDNT	QTY	TTL COST	QTY	TTL COST	QTY	TTL COST	
Total TAMPs PEO(T)				CDE							
S7030 PEO(A): Industrial Fac. Equip.						11,025		4,801	*		
Capital ADPE **											
S7040 NALDA						278		176		192	
S7060 I/ETMS											
Total Capital ADPE:											
NAVAIR SUPPORT EQUIP											
S7011 NON-OIS FIELD S.E.						36		0		0	
S7020 OIS HDQTR S.E.						3198		0		0	
S7021 OIS FIELD S.E.						478		0		0	
TOTAL:						15,015		12,207		7,884	
* In FY 97 and beyond TAMPs is budgeted in OPN BA2 under P-1 line item 93, TAC A/C MISSION PLANNING SYS (TAMPs) Detailed justification for the TAMPs program is provided in the OPN BA2 backup book.											
** ADPE = Automated Data Processing Equipment											
DD Form 2446, JUN 86					P-1 LINE NO. 141		PAGE# 4				

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)										A. DATE
B. APPROPRIATION / BUDGET ACTIVITY										IF YES WHEN AVAIL?
OTHER PROCUREMENT, NAVY / B.A. 3 - AVIATION SUPPORT EQUIPMENT										
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION City, State	CONTRACT METHOD & TYPE	CONTRACTED BY	AWD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW? WHEN?	SPEC REV REQ'D?	
Capital ADPE S7040 - NALDA 1996 1997	FDSC **		NAVSUP	3/96	8/96	47	107.8	YES	NO	N/A
	FDSC **		NAVSUP	2/97	7/97	45	105.5	YES	NO	N/A
Capital ADPE S7040: ** FDSC : Federal Data Systems Corporation.										

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BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE:					March 1996
Other Procurement, Navy BA-3: Aviation Support Equipment		Safety and Survivability Items					BLI: 427100
QUANTITY	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Millions)	\$0.0	\$9.8	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0

Congress provided funding in FY 1996 for the purchase of non-developmental life safety items which have been identified by the operational commands and the Department of the Navy's Office of Safety and Survivability as priorities for procurement. Since Congress recognized the Navy and Marine Corps currently fund only a limited number of safety and survivability items on an ad hoc basis funding was provided under this line item to finance the purchase of those critical items identified as priorities by the Fleet.

Specifically, funding will be used to procure Crash Survivability Flight Incident Recorders (CSFIR) for F/A-18 and AV-8B retrofit. The CSFIR will be a non-developmental item, commercial off-the-shelf procurement for a crash hardened recorder to be used in support of F/A-18 and AV-8B aircraft mishap and incident investigations. The effort will be managed by the Naval Air Systems Command, PMA-209 Air Combat Electronics Program Office.